

N O T I C E

THIS DOCUMENT HAS BEEN REPRODUCED FROM
MICROFICHE. ALTHOUGH IT IS RECOGNIZED THAT
CERTAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RELEASED
IN THE INTEREST OF MAKING AVAILABLE AS MUCH
INFORMATION AS POSSIBLE

PB86-121993

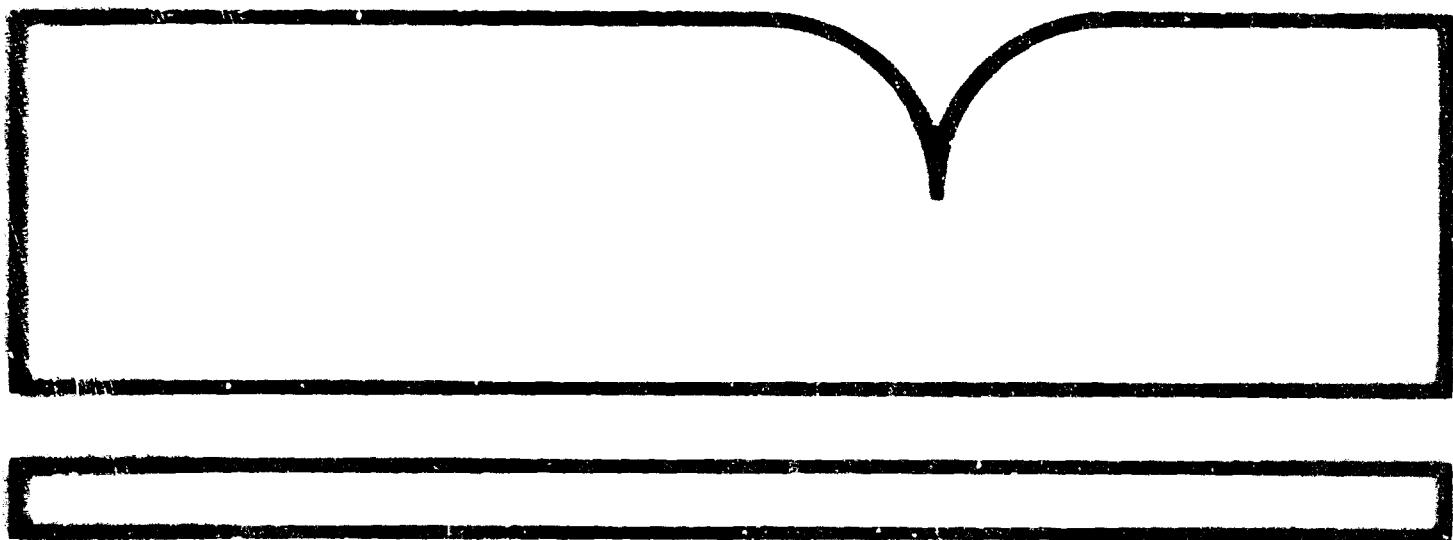
Solar-Geophysical Data Number 489, May 1985
Part 2 (Comprehensive Reports). Data for
December 1984, March-May 1983, and Miscellanea

(U.S.) National Geophysical Data Center
Boulder, CO

Prepared for

National Aeronautics and Space Administration
Washington, DC

Jun 85



U.S. Department of Commerce
National Technical Information Service
NTIS

BIBLIOGRAPHIC INFORMATION

PB86-121993

**Solar-Geophysical Data Number 489, May 1985. Part 2
(Comprehensive Reports). Data for December 1984, March-May
1983, and Miscellanea,**

Jun 85

by H. E. Coffey.

**PERFORMER: National Geophysical Data Center, Boulder, CO.
SGD-490-PT-2
Contract NASA-W-15519, Grant NSF-ATM83-18491**

**SPONSOR: National Aeronautics and Space Administration,
Washington, DC.**

See also PB85-226603 and PB86-121985. Sponsored by National Aeronautics and Space Administration, Washington, DC., and National Science Foundation, Washington, DC.

Contents: Detailed index for 1984-1985; Data for December 1984--(Meudon Carte Synoptique, Solar radio bursts at fixed frequencies, Solar x-ray radiation from GOES satellite graphs, Mass ejections from the sun, Active prominences and filaments, Solar irradiance); Data for March, April and May 1983--(Solar flares March 1983, Solar flares April 1983, Solar flares May 1983, Number of flares August 1966 - May 1983).

KEYWORDS: *Solar activity.

Available from the National Technical Information Service,
SPRINGFIELD, VA. 22161

PRICE CODE: PC A05/MF A01

JUNE 1985 NUMBER 490 -- Part II

Solar-Geophysical Data comprehensive reports



Data for December 1984, March -May 1983, and Miscellanea

Explanation of Data Reports Issued as Number 489 (Supplement) May 1985

A large, high-contrast, black and white photograph of a solar flare or coronal mass ejection (CME) erupting from the Sun. The image is heavily textured with vertical streaks and bright, glowing plasma filaments. A prominent, curved plasma filament extends from the right side of the Sun's disk towards the upper right corner of the frame.

EXPLANATION OF DATA MARCH-MAY 1983

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

noaa

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATIONNATIONAL ENVIRONMENTAL SATELLITE
DATA, AND INFORMATION SERVICENATIONAL MARINE FISHERIES
SERVICE

NOAAS



U.S. DEPARTMENT OF COMMERCE

Malcolm Baldrige, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Anthony J. Calio, Acting Administrator

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

John H. McElroy, Assistant Administrator

Solar - Geophysical Data

NO. 490 JUNE 1985

Part II (Comprehensive Reports)

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

International Standard Serial Number: 0038-0911
Library of Congress Catalog Number: 79-640375 //r81

DATA FOR
DECEMBER 1984
MARCH 1983
APRIL 1983

MAY 1983

For sale through the National Geophysical Data Center, NOAA/NESDIS, E/GC2, 325 Broadway, Boulder, Colorado 80303. Subscription Price for the U.S., Canada and Mexico. \$70.00 annually for both Part I (Prom. Reports) and Part II (Comprehensive Reports) or \$35.00 annually for either part. Annual supplement containing explanation is included. For foreign mailing \$90.00 for both parts or \$45.00 for either part. We now require prepayment for all orders. Please include with your request a check or money order payable in U.S. currency to the Department of Commerce, NOAA/NGDC. Any bank charges should be paid by the subscriber. Payment may be made through an American Express, Mastercard or VISA credit cards. Please include the correct name of credit card holder, card number and expiration date. Prices are subject to change. UNESCO coupons acceptable.

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA/NESDIS/NGDC, E/GC2, 325 Broadway, Boulder, Colorado 80303.

BACK ISSUES OF "SOLAR-GEOPHYSICAL DATA"

| Reel# | Coverage | Medium | Reel# | Coverage | Medium | Reel# | Coverage | Medium |
|-------|-----------------|-----------|-------|-----------------|-----------|-------------|-----------------|-----------|
| 1 | Jan 56 - Dec 56 | Microfilm | 9 | Jan 64 - Dec 64 | Microfilm | 17 | Jul 69 - Dec 69 | Microfilm |
| 2 | Jan 57 - Dec 57 | Microfilm | 10 | Jan 65 - Dec 65 | Microfilm | 18 | Jan 70 - Jun 70 | Microfilm |
| 3 | Jan 58 - Dec 58 | Microfilm | 11 | Jan 66 - Sep 66 | Microfilm | 19 | Jul 70 - Dec 70 | Microfilm |
| 4 | Jan 59 - Dec 59 | Microfilm | 12 | Oct 66 - Dec 66 | Microfilm | 20 | Jan 71 - Jun 71 | Microfilm |
| 5 | Jan 60 - Dec 60 | Microfilm | 13 | Jan 67 - Dec 67 | Microfilm | 21 | Jul 71 - Dec 71 | Microfilm |
| 6 | Jan 61 - Dec 61 | Microfilm | 14 | Jan 68 - Jun 68 | Microfilm | 22 | Jan 72 - Jun 72 | Microfilm |
| 7 | Jan 62 - Dec 62 | Microfilm | 15 | Jul 68 - Dec 68 | Microfilm | 23 | Jul 72 - Dec 72 | Microfilm |
| 8 | Jan 63 - Dec 63 | Microfilm | 16 | Jan 69 - Jun 69 | Microfilm | 1973 - 1984 | Microfiche | |

Microfilm are available at \$30.00 per reel; microfiche at \$40.00 per year; \$1,000.00 for above set. Back issues in booklet form are available as long as stocks exist at \$4.00 for either part plus a \$3.00 handling charge per order. Foreign orders must be over \$10.00.

To standardize referencing these reports in the open literature, the following format is recommended: Solar-Geophysical Data, 474 Part I (or Part II), pages, February 1984, U.S. Department of Commerce (Boulder, Colorado, USA 80303).

SOLAR-GEOPHYSICAL DATA

NUMBER 490

(Issued in Two Parts)

Editor:
Helen E. Coffey, Physicist

Joe H. Allen, Chief
Solar-Terrestrial Physics Division

Staff:

John A. McKinnon, Physicist
Daniel C. Wilkinson, Physicist
Viola W. Miller, Physical Science Technician
Carol Weathers, Editorial Assistant
Charles T. Shanks, Draftsman

CONTENTS

PART I (PROMPT REPORTS)

| | Page |
|---|--------|
| DETAILED INDEX FOR 1984-1985. | 2 |
| DATA FOR MAY 1985 | 3- 24 |
| DATA FOR APRIL 1985 | 25- 84 |
| LATE DATA | 85-106 |
| Geomagnetic Sudden Commencements March 1985 | |
| ERRATA: SC for October 1984 | |
| Cosmic Rays Huancayo January-February 1985; Climax March 1985 | |
| Calcium Plage Data | |
| Daily Maps December 1983-February 1984 | |
| Plage Regions November 1982 | |

PART II (COMPREHENSIVE REPORTS)

| | Page |
|--|-------|
| DETAILED INDEX FOR 1984-1985 | 2 |
| DATA FOR DECEMBER 1984 | 3-18 |
| SOLAR FLARE DATA MARCH-MAY 1983 (Preliminary). | 19-88 |

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN "SOLAR-GEOPHYSICAL DATA"

| CODE | KIND OF OBSERVATION | OCT | NOV | DEC | JAN 85 | FEB | MAR | APR | MAY |
|--|--|--|---------|---------|---------|---------|---------|---------|---------|
| A. SOLAR AND INTERPLANETARY PHENOMENA | | | | | | | | | |
| A.1 | Sunspot Drawings | 484A 30 | 485A 28 | 486A 30 | 487A 30 | 488A 31 | 489A 30 | 490A 34 | |
| A.2aa | Internat. Provisional Sunspot Numbers | 483A 7 | 484A 7 | 485A 7 | 486A 7 | 487A 7 | 488A 7 | 489A 7 | 490A 7 |
| A.2c | American Sunspot Numbers | 483A 7 | 484A 7 | 485A 7 | 486A 7 | 487A 7 | 488A 7 | 489A 7 | 490A 7 |
| A.3a | Mt. Wilson Magnetograms | 484A 30 | 485A 28 | 486A 30 | 487A 30 | 488A 31 | 489A 30 | 490A 34 | |
| A.3b | Mt. Wilson Sunspot Magnetic Class | 484A 61 | 485A 56 | 486A 61 | 487A 61 | 488A 59 | 489A 61 | 490A 64 | |
| A.3c | Kitt Peak Magnetograms | 484A 30 | 485A 28 | 486A 30 | 487A 30 | 488A 31 | 489A 30 | 490A 34 | |
| A.3d | Mean Solar Magnetic Field (Stanford) | 483A 22 | 484A 24 | 485A 22 | 486A 24 | 487A 24 | 488A 20 | 489A 23 | 490A 23 |
| A.3e | Stanford Magnetograms | 484A 30 | 485A 28 | 486A 30 | 487A 30 | 488A 31 | 489A 30 | 490A 34 | |
| A.4 | H-alpha Filigrans | 484A 30 | 485A 28 | 486A 30 | 487A 30 | 488A 31 | 489A 30 | 490A 34 | |
| A.5 | Calcium Plage Photographs/Drawings | Jun-Aug 83 in 485A101; Sep-Nov 83 in 489A 84; Dec 83-Feb 84 in 490A 91 | | | | | | | |
| A.5a | Calcium Plage and Sunspot Regions | Aug-Sep 82 in 487A 91; Oct 82 in 489A 94; Nov 82 in 490A101 | | | | | | | |
| A.5b | Daily Calcium Plage Indices | Jun-Aug 83 in 485A113 | | | | | | | |
| A.6 | H-alpha Synoptic Charts | 483A 24 | 485A 24 | 486A 26 | 488A 26 | 488A 27 | 489A 26 | 490A 26 | |
| A.6b | Active Region Carte Synoptique (Paris) | 488B 4 | 489B 4 | 490B 4 | | | | | |
| A.6c | Stanford Solar Mag Field Synoptic Maps | 484A 27 | 485A 25 | 486A 27 | 487A 27 | 488A 28 | 489A 27 | 490A 28 | |
| A.6d | Kitt Peak Solar Mag Field Synoptic Maps | 484A 28 | 485A 26 | 486A 28 | 487A 28 | 488A 29 | 489A 28 | 490A 30 | |
| A.6e | Mass Ejections from the Sun | 488B 14 | 489B 21 | 490B 14 | | | | | |
| A.6f | Active Prominences and Filaments | 488B 15 | 489B 22 | 490B 15 | | | | | |
| A.7g | Kitt Peak Helium Synoptic Maps | 484A 29 | 485A 27 | 486A 29 | 487A 29 | 488A 30 | 489A 29 | 490A 32 | |
| A.7h | Coronal Line Emission (Sacramento Peak) | 484A 30 | 485A 28 | 486A 30 | 487A 30 | 488A 31 | 489A 30 | 490A 34 | |
| A.8aa | 2800 MHz - Solar Flux (Ottawa) | 483A 7 | 484A 7 | 485A 7 | 486A 7 | 487A 7 | 488A 7 | 489A 7 | 490A 7 |
| A.8ac | 2800 MHz - Adj. Solar Flux (Ottawa) | 483A 7 | 484A 7 | 485A 7 | 486A 7 | 487A 7 | 488A 7 | 489A 7 | 490A 7 |
| A.8g | Adjusted Daily Solar Fluxes (Sagamore) | 483A 7 | 484A 7 | 485A 7 | 486A 7 | 487A 7 | 488A 7 | 489A 7 | 490A 7 |
| A.10a | Interferometric Chart - 169 MHz - Nancay | 483A 14 | 484A 15 | 486A 14 | 486A 15 | 487A 14 | 488A 14 | 489A 16 | 490A 15 |
| A.10c | East-West Scans - 21 cm - Fleurs | 483A 17 | 484A 18 | 485A 16 | 486A 18 | 487A 17 | 488A 17 | 489A 19 | 490A 18 |
| A.10d | East-West Scans - 43 cm - Fleurs | 483A 18 | 484A 19 | 485A 17 | 486A 18 | 487A 18 | 488A 18 | 489A 20 | 490A 19 |
| A.10e | East-West Scans - 10 cm - Ottawa | 483A 16 | 484A 17 | 485A 15 | 486A 17 | 487A 16 | 488A 16 | 489A 18 | 490A 17 |
| A.10f | East-West Scans - 3 cm - Toyokawa | 483A 15 | 484A 16 | 486A 15 | 486A 16 | 487A 15 | 488A 15 | 489A 17 | 490A 16 |
| A.11g | Solar X-ray GOES (graphs/event table) | 488B 8 | 489B 16 | 490B 8 | | | | | |
| A.12e | Solar Particles (IMP H & J) | Jan-Mar 83 data in 478B 28 | | | | | | | |
| A.13d | Solar Wind from IP Scintillations | 485A 97 | 486A 90 | 486A 92 | | | | | |
| A.13e | Solar Plasma (IMP H & J) | | | | | | | | |
| A.13f | Solar Wind (Pioneer 12) | | | | | | | | |
| A.16a | SMM Solar Irradiance | 488B 56 | 489B 24 | 490B 18 | | | | | |
| A.16b | NIMBUS Solar Irradiance | Nov 78-Mar 84 data in 485B 70 | | | | | | | |
| A.17 | Interplanetary Mag Field (Pioneer 12) | 486A 87 | 486A 88 | 488A 80 | | | | | |
| A.17c | Inferred Interplanetary Magnetic Field | 483A 20 | 484A 22 | 485A 19 | 486A 21 | 487A 21 | 488A 21 | | |
| B. IONOSPHERIC RADIO PROPAGATION PHENOMENA | | | | | | | | | |
| B.52 | Field Strength Graphs - North Atlantic | 484A 78 | 485A 80 | 486A 80 | 487A 78 | 488A 76 | 489A 76 | 490A 82 | |
| B.53 | Quality Indices on Paths to Germany | 484A 77 | 485A 79 | 486A 79 | 487A 80 | 488A 75 | 489A 78 | 490A 84 | |
| C. SOLAR FLARE-ASSOCIATED EVENTS | | | | | | | | | |
| C.1a | H-alpha Flares | 483A 12 | 484A 12 | 485A 12 | 486A 12 | 487A 13 | 488A 12 | 489A 12 | 490A 12 |
| C.1ba | H-alpha Flare Groups | Dec 82 in 488B 18; Jan-Feb 83 in 489B 25; Mar-May 83 in 490B 19 | | | | | | | |
| C.1d | Flare Patrol Observations | 482A 14 | 484A 14 | 485A 14 | 486A 12 | 487A 14 | 488A 13 | --- | 490A 14 |
| C.1e | Flare Indices (by day) | Dec 82 in 488B 52; Jan-Feb 83 in 489B 25; Mar-May 83 in 490B 19 | | | | | | | |
| C.3 | Radio Bursts Fixed Freq.* | 487B 6 | 489B 6 | 490B 6 | | | | | |
| C.3 | Radio Bursts Fixed Freq. Selected | 483A 19 | 484A 20 | 485A 18 | 486A 19 | 487A 19 | 488A 18 | 489A 21 | 490A 20 |
| C.4d | Radio Bursts Spectral (Culgoora) | 485A 84 | 485A 65 | 486A 66 | | | | | |
| C.4e | Radio Bursts Spectral (Weissenau) | 484A 66 | 485A 55 | 486A 56 | 487A 67 | 488A 63 | 489A 66 | 490A 69 | |
| C.4f | Radio Bursts Spectral (Sagamore Hill) | 484A 66 | 485A 65 | 486A 66 | 487A 67 | 488A 63 | 489A 66 | 490A 69 | |
| C.4i | Radio Bursts Spectral (Bleilen) | --- | 485A 65 | 486A 66 | 487A 67 | 488A 63 | 489A 66 | 490A 69 | |
| C.4k | Radio Bursts Spectral (Learmont) | 484A 66 | 485A 65 | 486A 66 | 487A 67 | 488A 63 | 489A 66 | 490A 69 | |
| C.4l | Radio Bursts Spectral (Palehua) | 484A 66 | 485A 65 | 486A 66 | 487A 67 | 488A 63 | 489A 66 | 490A 69 | |
| C.6 | Sudden Ionospheric Disturbances | 484A 64 | 485A 63 | 486A 65 | 487A 65 | 488A 62 | 489A 65 | 490A 67 | |
| D. GEOMAGNETIC & MAGNETOSPHERIC PHENOMENA | | | | | | | | | |
| D.1a | Geomagnetic Indices | 484A 72 | 485A 74 | 486A 74 | 487A 73 | 488A 69 | 489A 71 | 490A 76 | |
| D.1ba | 27-day Chart of Kp Indices | 484A 74 | 485A 76 | 486A 76 | 487A 75 | 488A 71 | 489A 73 | 490A 78 | |
| D.1c | 27-day Chart of Cg | 488A 72 | 488A 72 | 488A 72 | | | | | |
| D.1d | Principal Magnetic Storms | 484A 76 | 485A 78 | 486A 78 | 487A 77 | 488A 74 | 489A 75 | 490A 80 | |
| D.1f | Sudden Commencement/Solar Flare Effects | 490A 86 | 486A 89 | 487A 88 | 488A 81 | 489A 80 | 490A 86 | 490A 81 | |
| D.1g | Equatorial Indices Dst | 484A 75 | 485A 77 | 486A 77 | 487A 76 | 488A 73 | 489A 74 | 490A 79 | |
| F. COSMIC RAYS | | | | | | | | | |
| F.1a | Cosmic Ray Neutron Counts (Deep River) | 485A 87 | 485A 73 | | | | | | |
| F.1b | Cosmic Ray Neutron Counts (Climax) | 484A 68 | 486A 98 | 486A 73 | 489A 81 | 489A 82 | 490A 89 | 490A 75 | |
| F.1e | Cosmic Ray Neutron Counts (Alert) | 485A 87 | 485A 73 | | | | | | |
| F.1h | Cosmic Ray Neutron Counts (Thule) | 485A 87 | 485A 73 | 486A 73 | 487A 72 | 488A 65 | 489A 67 | | |
| F.1i | Cosmic Ray Neutron Counts (Kiel) | 484A 68 | 485A 73 | 486A 73 | 487A 72 | 488A 65 | 489A 67 | 490A 75 | |
| F.1j | Cosmic Ray Neutron Counts (Tokyo) | 484A 68 | 485A 73 | 486A 73 | 487A 72 | 488A 65 | 489A 67 | 490A 75 | |
| F.1l | Cosmic Ray Neutron Counts (Huancayo) | 486A 97 | 486A 98 | | | | | | |
| F.1m | Cosmic Ray Neutron Counts (Predigtstuhl) | 484A 68 | 485A 73 | 486A 73 | 487A 72 | 488A 65 | 489A 67 | 490A 75 | |
| H. MISCELLANEOUS | | | | | | | | | |
| H.50 | IWDS Alert Periods | 483A 4 | 484A 4 | 485A 4 | 486A 4 | 487A 4 | 488A 4 | 489A 4 | 490A 4 |

The entry "484A 30" under Oct 1984, for example, means that the sunspot drawings for Oct 1984 appear in SOLAR-GEOPHYSICAL DATA No. 484, Part I, and that they begin on page 30. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

*Solar radio noise bursts observed at Athens, Learmonth, Manila, Palehua and Sagamore Hill during Aug 1979 through Oct 1980 appear in SOLAR-GEOPHYSICAL DATA, No. 461, Part II, pages 103-235.

GOES Solar Proton Events 1976-Jan 1985 -- 487A 20
Cosmic Ray Forbush Decreases at Mt. Washington 1955-Apr 1984 -- 485A 91

CONTENTS

Comprehensive Reports

DATA FOR DECEMBER 1984

Number 490 Part II

| | Page |
|--|-------|
| MEUDON CARTE SYNOPTIQUE | |
| Active Regions and Filaments | 4 |
| Synoptic Solar Maps. | 5 |
| SOLAR FLARES | |
| H-alpha Solar Flare Groups | |
| Daily Flare Indices | |
| Intervals of No Flare Patrol Observation | |
| (Unavailable at time of publication) | |
| SOLAR RADIO BURSTS AT FIXED FREQUENCIES | 6- 7 |
| INTERPLANETARY SOLAR PARTICLES AND PLASMA | |
| (Data unavailable at time of publication.) | |
| SOLAR X-RAY RADIATION FROM GOES SATELLITE Graphs | 8 -12 |
| Event List | 13 |
| MASS EJECTIONS FROM THE SUN | |
| | 14 |
| ACTIVE PROMINENCES AND FILAMENTS | |
| Culgoora Guidelines for Recording Prominence and Filament Data | 15-16 |
| | 17 |
| SOLAR IRRADIANCE | |
| SMM ACRIM. | 18 |

4
Dec 84

C A R T E S Y N O P T I Q U E

A C T I V E R E G I O N S
CARRINGTON ROTATION 1756

(30 November to 28 December 1984)

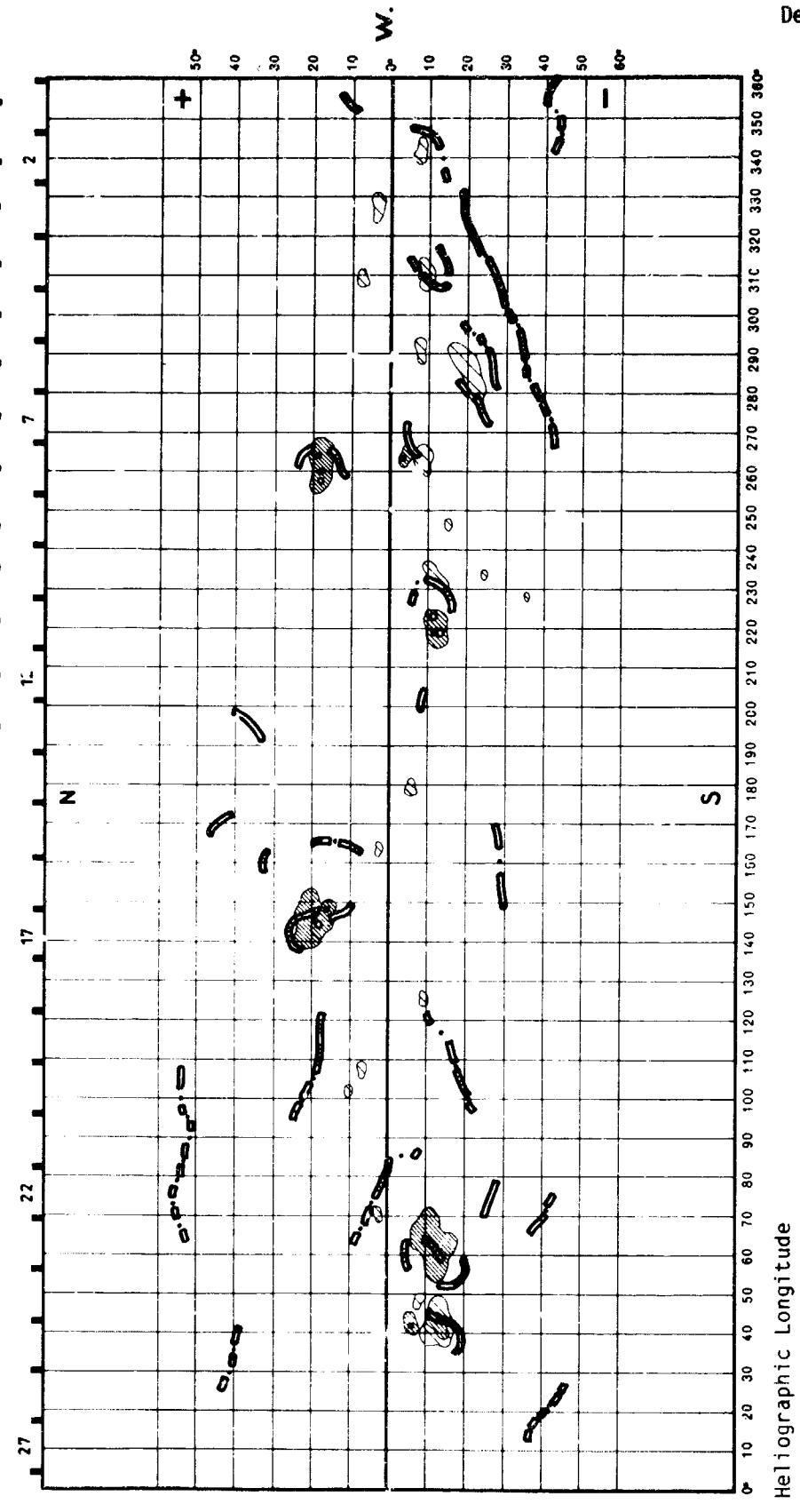
| Region No. | Coordinates Lat. Long. | Imp | Age at OMP (Days) | | Spotless Region | Region No. In Rotation 1755 | Activity at West Limb |
|------------|---------------------------|-----|-------------------------|----|--------------------|--------------------------------|--------------------------|
| | | | 1 | >6 | | | |
| 1 | 10°S | 310 | 1 | >6 | x | | disappeared |
| 2 | 7°N | 309 | 1 | +5 | x | | disappeared |
| 3 | 8°S | 290 | 1 | -4 | x | | disappeared |
| 4 | 4°S | 264 | 2 | +6 | | | disappeared |
| 5 | 9°S | 263 | 1 | +3 | x | | disappeared |
| 6 | 18°N | 261 | 3 | >6 | | | decreasing |
| 7 | 12°S | 233 | 1 | +2 | x | | dispersed |
| 8 | 12°S | 220 | 3 | +1 | | | decreasing |
| 9 | 5°S | 179 | 1 | >6 | x | | disappeared |
| 10 | 17°N | 145 | 3 | 0 | | | decreasing |
| 11 | 21°N | 145 | 2 | >6 | | | decreasing |
| 12 | 11°S | 62 | 1 | >6 | x | | decreasing |
| 13 | 6°S | 43 | 2 | 0 | | | decreasing |
| 14 | 13°S | 42 | 1 | -3 | x | | stable |

C A R T E S Y N O P T I Q U E

CARRINGTON ROTATION NUMBER 1756
(November 30 to December 28, 1984)

Meudon Observatory

December 1984



Heliographic Longitude

5
Dec 84

6
Dec 84SOLAR RADIO EMISSIONS
OUTSTANDING OCCURRENCES

DECEMBER 1984

| Day | Freq | Sta | Type | Time of Maximum | | | Flux Density | | Int | Remarks |
|-----|-------|------|------|-----------------|--------------|----------------|--|-------|------|-----------------|
| | | | | Start (UT) | Maximum (UT) | Duration (Min) | Peak (10 ⁻²² W/m ² Hz) | Mean | | |
| 01 | 500 | HIRA | 42 | SER | 0050.6 | 0101.9 | 25.0 | 23.0 | | WR |
| | 3750 | TYKW | 21 | GRF | 0140.0 | 0147.0 | 55.0 | 2.0 | 1.0 | |
| | 2000 | TYKW | 21 | GRF | 0140.0 | 0155.0 | 35.0 | 2.0 | 1.0 | |
| | 3750 | TYKW | 5 | S | 0141.0 | 0141.7 | 2.0 | 1.0 | .3 | |
| | 2000 | TYKW | 5 | S | 0145.0 | 0147.0 | 5.0 | 1.0 | .3 | |
| | 200 | HIRA | 27 | RF | 0559.0 | 0618.0 | 42.0 | 5.0 | 2.0 | ML |
| | 250 | OND | 40 | F | 0940.5 | 0941.0 | 15.0 | 4.0 | | |
| | 260 | OND | 40 | F | 1030.0 | 1032.0 | 2.0 | 1.0 | | |
| | 260 | OND | 40 | F | 1056.8 | 1108.0 | 120.0 | 2.0 | | |
| | 245 | LEAR | 8 | S | 2358.0 | 2358.1 | .3 | 30.0 | | QL=6 ST=2 TYP=3 |
| 02 | 245 | LEAR | 43 | NS | 0342.8 | 0431.8 | 89.2 | 24.0 | | QL=6 ST=2 TYP=1 |
| | 2950 | GORK | 20 | GRF | 0858.1 | 0938.6 | 97.0 | 2.1 | 1.0 | |
| 03 | 245 | LEAR | 8 | S | 0025.1 | 0025.3 | .4 | 25.0 | | QL=6 ST=2 TYP=3 |
| | 127 | TORN | 40 | F | 0805.3 | 0805.7 | 13.5 | 30.0 | 3.0 | |
| | 410 | LEAR | 8 | S | 0826.8 | 0826.8 | 1.0 | 17.0 | | QL=6 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0826.8 | 0826.8 | .8 | 6.0 | | QL=6 ST=2 TYP=3 |
| | 610 | SGMR | 47 | GB | 1929.8 | 1929.8 | .3 | 119.0 | | QL=6 ST=2 TYP=5 |
| 04 | 8800 | LEAR | 8 | S | 0933.1 | 0933.6 | 1.2 | 15.0 | | QL=6 ST=2 TYP=3 |
| | 15400 | LEAR | 8 | S | 0933.3 | 0933.5 | .5 | 39.0 | | QL=6 ST=2 TYP=3 |
| | 1415 | LEAR | 8 | S | 0933.3 | 0933.6 | 1.0 | 5.0 | | QL=6 ST=2 TYP=3 |
| | 4995 | LEAR | 8 | S | 0933.3 | 0933.6 | .7 | 6.0 | | QL=6 ST=2 TYP=3 |
| | 2695 | LEAR | 8 | S | 0933.3 | 0933.6 | 1.0 | 6.0 | | QL=6 ST=2 TYP=3 |
| | 8800 | LEAR | 8 | S | 0952.0 | 0952.1 | .5 | 22.0 | | QL=6 ST=2 TYP=3 |
| | 15400 | LEAR | 8 | S | 0952.0 | 0952.1 | .3 | 46.0 | | QL=6 ST=2 TYP=3 |
| | 2695 | LEAR | 8 | S | 0952.1 | 0952.1 | .2 | 7.0 | | QL=6 ST=2 TYP=3 |
| | 4995 | LEAR | 8 | S | 0952.1 | 0952.1 | .4 | 10.0 | | QL=6 ST=2 TYP=3 |
| | 1415 | LEAR | 8 | S | 0952.1 | 0952.3 | .2 | 7.0 | | QL=6 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 2348.8 | 2349.8 | 1.3 | 13.0 | | QL=6 ST=2 TYP=3 |
| 05 | 2695 | SGMR | 47 | GB | 1508.1 | 1508.1 | .2 | 88.0 | | QL=6 ST=2 TYP=5 |
| 06 | 410 | PALE | 8 | S | 0004.0 | 0004.1 | .6 | 19.0 | | QL=6 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0625.6 | 0625.8 | .2 | 11.0 | | QL=1 ST=2 TYP=3 |
| | 9300 | KISV | 8 | S | 0824.2 | 0824.5 | .5 | 20.0 | | |
| | 127 | KISV | 8 | S | 0824.2 | 0824.5 | .5 | 20.0 | | |
| | 9300 | KISV | 46 | C | 0856.4 | 0857.3 | 2.0 | 8.0 | | |
| | 9300 | KISV | 1 | S | 1025.7 | 1026.0 | .5 | 13.0 | | |
| | 9300 | KISV | 1 | S | 1046.7 | 1046.9 | .5 | 8.0 | | |
| | 9300 | KISV | 8 | S | 1048.2 | 1048.5 | .5 | 39.0 | | |
| | 33 | UPIC | 1 | S | 1114.2 | 1114.3 | .3 | | | |
| 07 | 33 | UPIC | 1 | S | 1202.4 | 1202.5 | .2 | | | |
| 08 | 33 | UPIC | 2 | S/F | 1050.6 | 1050.9 | .7 | | | |
| 10 | 245 | SGMR | 43 | NS | 1228.0 | 1445.1 | 497.00 | 139.0 | | QL=6 ST=2 TYP=1 |
| | 200 | HIRA | 44 | NS | 2138.0E | 0432.0 | 590.00 | 77.0 | 35.0 | ML |
| | 100 | HIRA | 44 | NS | 2138.0E | 0520.0 | 590.00 | 80.0 | 25.0 | |
| | 245 | LEAR | 43 | NS | 2151.0 | 0307.5 | 772.00 | 169.0 | | QL=6 ST=2 TYP=1 |
| | 410 | LEAR | 43 | NS | 2151.0 | 0623.0 | 772.00 | 100.0 | | QL=6 ST=2 TYP=1 |
| | 245 | PALE | 44 | NS | 2240.0E | 2307.8 | | 13.0 | | QL=6 ST=1 TYP=1 |
| | 9400 | TYKW | 20 | GRF | 0220.0 | 0233.0 | 60.0 | 2.0 | 1.0 | |
| | 9400 | TYKW | 5 | S | 0453.5 | 0456.0 | 6.0 | 3.0 | 1.0 | |
| 11 | 208 | VORO | 44 | NS | 0000.0 | | 120.00 | | 21.0 | |
| | 100 | GORK | 44 | NS | 0555.0E | | 342.00 | | 5.0 | |
| | 100 | GORK | 44 | NS | 0558.0E | | 339.00 | | 40.0 | |
| | 204 | IZM1 | 44 | NS | 0700.0E | | 300.0 | 90.0 | | |
| | 260 | OND | 44 | NS | 0837.0E | 1058.0 | 300.00 | 158.0 | | |
| | 127 | TORN | 43 | NS | 0850.0 | | 340.00 | | 20.0 | V=2 |
| | 245 | SGMR | 44 | NS | 1228.0E | 1425.1 | | 119.0 | | QL=6 ST=1 TYP=1 |
| | 200 | HIRA | 44 | NS | 2139.0E | 0609.0 | 590.00 | 35.0 | 20.0 | ML |
| | 245 | LEAR | 43 | NS | 2152.0 | 0030.0 | 177.00 | 21.0 | | QL=6 ST=3 TYP=1 |
| | 245 | PALE | 43 | NS | 2240.0 | 0307.5 | 293.00 | 130.0 | | QL=6 ST=2 TYP=1 |
| | 2930 | VORO | 42 | SER | 0252.0 | 0252.0 | 16.0 | 218.0 | | |
| | 3750 | TYKW | 20 | CRF | 0320.0 | 0343.0 | 60.0 | 1.0 | .5 | RAIN |
| | 410 | LEAR | 47 | GB | 0610.1 | 0616.8 | 1.0 | 150.0 | | QL=6 ST=2 TYP=5 |
| | 2950 | GORK | 20 | GRF | 0720.0 | 0959.6 | 229.0 | 2.1 | | |

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

7
Dec 84

DECEMBER 1984

| Day | Freq | Sta | Type | Time of | | | Flux Density | | Int | Remarks |
|-----|------|------|--------|---------------|-----------------|-------------------|---|------|-----------------|---------|
| | | | | Start (UT) | Maximum (UT) | Duration (Min) | Peak (10^{-22} W/m ² Hz) | Mean | | |
| 11 | 9100 | GORK | 20 GRF | 0757.5 | 1046.1 | 200.00 | 10.0 | | | |
| | 2800 | OTTA | 27A RF | 1500.0 | | 110.0 | 1.2 | 1.1 | | |
| | 2800 | CTTA | 24 R | 1500.0 | 1504.0 | 4.0 | 1.2 | | | |
| | 2800 | OTTA | 1 S | 1502.0 | 1503.0 | 2.0 | .8 | .4 | | |
| | 2800 | OTTA | 24P R | 1504.0 | | 91.0 | 1.2 | | | |
| | 2800 | OTTA | 26 FAL | 1635.0 | 1650.0 | 15.0 | -1.2 | - .6 | | |
| | 2800 | OTTA | 20 GRF | 1805.0 | 1830.0 | 40.0 | 1.0 | .5 | | |
| 12 | 208 | VORO | 44 NS | 0000.0 | | 120.00 | | 23.0 | | |
| | 200 | GORK | 43 NS | 0609.0 | | 157.00 | | 20.0 | | |
| | 100 | GORK | 44 NS | 0609.0E | | 330.00 | | 5.0 | | |
| | 127 | TORN | 44 NS | 0700.0E | 0711.5 | 430.00 | 110.0 | 2.0 | V=2, DISTURBED | |
| | 204 | IZMI | 43 NS | 0700.0 | | 110.0 | 15.0 | | | |
| | 260 | ONDR | 44 NS | 0937.0E | | 243.00 | 29.0 | | | |
| | 245 | PALE | 43 NS | 1756.0 | 0317.3 | 577.00 | 169.0 | | QL=6 ST=2 TYP=1 | |
| | 245 | LEAR | 43 NS | 2152.0 | 0324.5 | 772.00 | 28.0 | | QL=6 ST=2 TYP=1 | |
| | 3750 | TYKW | 20 GRF | 0150.0 | 0200.0 | 50.0 | 1.0 | .5 | | |
| | 2000 | TYKW | 5 S | 0538.3 | 0538.7 | 1.0 | 3.0 | 1.0 | | |
| | 2950 | GORK | 20 GRF | 0725.6 | 0918.0 | 225.0 | 1.2 | | | |
| | 200 | HIRA | 42 SER | 2359.6 | 0009.0 | 11.7 | 49.0 | | WL | |
| | 100 | HIRA | 42 SER | 2359.6 | 0009.0 | 12.0 | 110.0 | | | |
| 13 | 100 | GORK | 44 NS | 0603.0E | | 330.00 | | | | |
| | 127 | TORN | 43 NS | 0728.0 | | 428.0 | | 1.0 | V=1, DISTURBED | |
| | 260 | ONDR | 44 NS | 0828.0E | 1343.5 | 343.00 | 15.0 | | | |
| | 100 | HIRA | 8 S | 0115.0 | | .4 | 13000.00 | | | |
| | 200 | HIRA | 8 S | 0115.1 | 0115.4 | .4 | 16000.0 | | WL | |
| | 245 | PALE | 49 GB | 0115.3 | 0115.3 | .5 | 1300.0 | | QL=6 ST=2 TYP=6 | |
| | 536 | ONDR | 8 S | 1205.5 | 1205.5 | 8.1 | 3.0 | | | |
| | 536 | ONDR | 40 F | 1232.0 | 1233.8 | 20.0 | 6.0 | | | |
| | 33 | UPIC | 2 S/F | 1343.2 | 1343.4 | .9 | | | | |
| 14 | 127 | TORN | 43 NS | 0721.0 | | 400.0 | | | V=1 | |
| | 260 | ONDR | 44 NS | 0828.0E | | 312.00 | 20.0 | | | |
| | 204 | IZMI | 4 S/F | 0814.0 | 0814.5 | 2.0 | 55.0 | 25.0 | | |
| 16 | 2000 | TYKW | 45 C | 0710.0 | 0711.2 | 3.5 | 12.0 | 1.5 | | |
| | 3750 | TYKW | 45 C | 0710.0 | 0712.4 | 5.0U | 7.0 | 3.0U | | |
| | 1415 | ATHN | 8 S | 0710.1 | 0710.5 | .9 | 24.0 | | QL=6 ST=2 TYP=3 | |
| | 1000 | TYKW | 45 C | 0710.4 | 0710.7 | 1.0 | 6.0 | 1.0 | | |
| | 1415 | LEAR | 8 S | 0710.5 | 0711.0 | .6 | 32.0 | | QL=6 ST=2 TYP=3 | |
| | 2695 | LEAR | 8 S | 0710.6 | 0710.6 | .2 | 7.0 | | QL=6 ST=2 TYP=3 | |
| | 4995 | LEAR | 8 S | 0710.6 | 0710.8 | .2 | 4.0 | | QL=6 ST=2 TYP=3 | |
| 17 | 1000 | TYKW | 20 GRF | 0150.0 | 0205.0 | 100.0 | 1.0 | .5 | | |
| | 2000 | TYKW | 20 GRF | 0150.0 | 0206.0 | 100.0 | 2.0 | 1.0 | | |
| | 3750 | TYKW | 20 GRF | 0150.0 | 0210.0 | 90.0 | 1.5 | .7 | | |
| | 9400 | TYKW | 45 C | 0201.0 | 0202.5 | 3.0 | 9.0 | 2.0 | | |
| 18 | 3750 | TYKW | 20 GRF | 0155.0 | 0204.0 | 30.0U | 1.0 | .5U | | |
| | 2000 | TYKW | 20 GRF | 0155.0 | 0208.0 | 30.0 | 1.0 | .5 | INTERFERENCE | |
| 19 | 536 | ONDR | 8 S | 1006.5 | 1006.6 | .7 | 7.0 | | | |
| | 2800 | OTTA | 1 S | 1831.2 | 1831.3 | .5 | .8 | .3 | | |
| 20 | 2800 | OTTA | 8 S | 1832.0 | 1832.0 | .5 | 1.4 | .1 | | |
| 21 | 1000 | TYKW | 20 GRF | 0150.0 | 0252.0 | 150.0 | 2.0 | 1.0 | | |
| | 9395 | PEKG | 45 C | 0234.0 | 0241.6 | 12.0 | 49.4 | 15.3 | | |
| | 2000 | TYKW | 20 GRF | 0235.0 | 0310.0 | 90.0 | 3.0 | 1.5 | | |
| | 3750 | TYKW | 20 GRF | 0240.0 | 0310.0 | 80.0 | 3.0 | 1.5 | | |
| | 9400 | TYKW | 20 GRF | 0240.0 | 0315.0 | 80.0 | 3.0 | 1.5 | | |
| | 33 | UPIC | 2 S/F | 0909.1 | 0809.2 | 1.2 | | | | |
| | 536 | ONDR | 2 S/F | 1043.0 | 1043.2 | .4 | 5.0 | | | |
| 22 | 9400 | TYKW | 5 S | 0618.8 | 0619.2 | 1.0 | 10.0 | 2.0 | | |
| | 536 | ONDR | 8 S | 1152.8 | 1153.0 | .5 | 5.0 | | | |
| | 260 | ONDR | 42 SER | 1313.6 | 1317.5 | 5.5 | 4.0 | | | |
| | 536 | ONDR | 8 S | 1317.0 | 1317.5 | .5 | 16.0 | | | |
| 23 | 260 | ONDR | 8 S | 1136.5 | 1136.5 | .3 | .4 | .3 | | |
| 25 | 9400 | TYKW | 5 S | 0428.3 | 0428.7 | 1.0 | 5.0 | | | |

8
Dec 84

GOES 6 X-RAYS
DECEMBER 1984

02 03

01

-3

-4

Logarithmic Scale

-5

-6

-7

-8

-9

-10

W/m²

-6

-7

-8

-9

-10

-11

-12

-13

0000 UT 0406 0800 1200 1600 2000 0000 0400 0800 1200 1600 2000 2400

05 06

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-31

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

-22

-23

-24

-25

-26

-27

-28

-29

-30

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

-11

-12

-13

-14

-15

-16

-17

-18

-19

-20

-21

GOES 6 X-RAYS

DECEMBER 1984

07 08 09

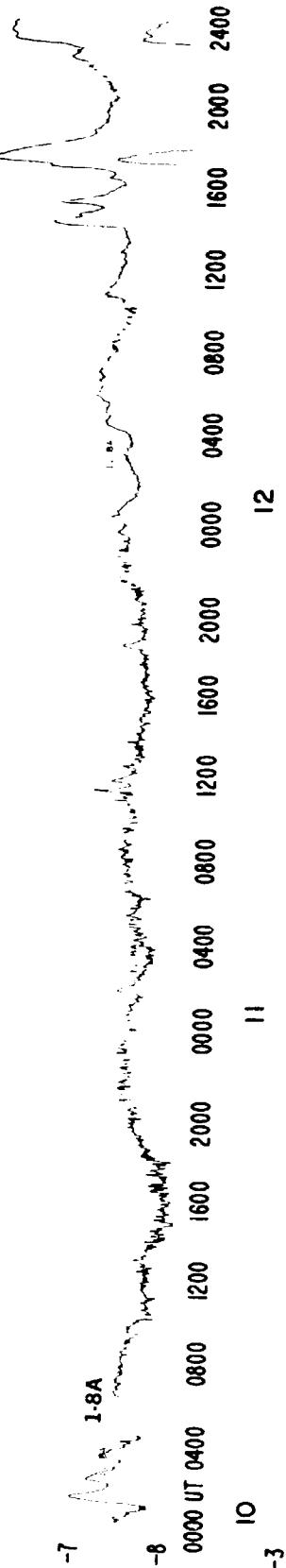
-3

-4

-5

-6

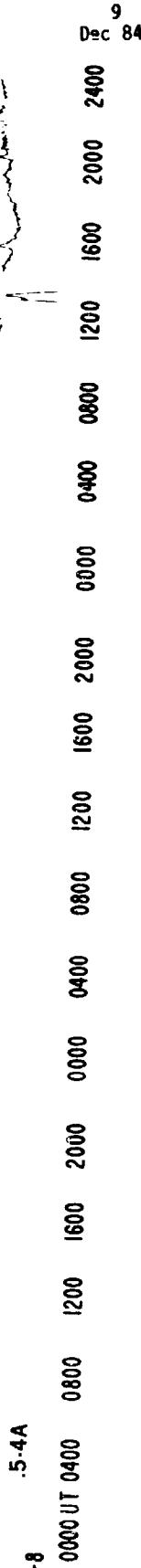
W/m^2



-4

-5

W/m^2



9
Dec 84

GOES 6 X-RAYS

DECEMBER 1984

14

13

W/m²

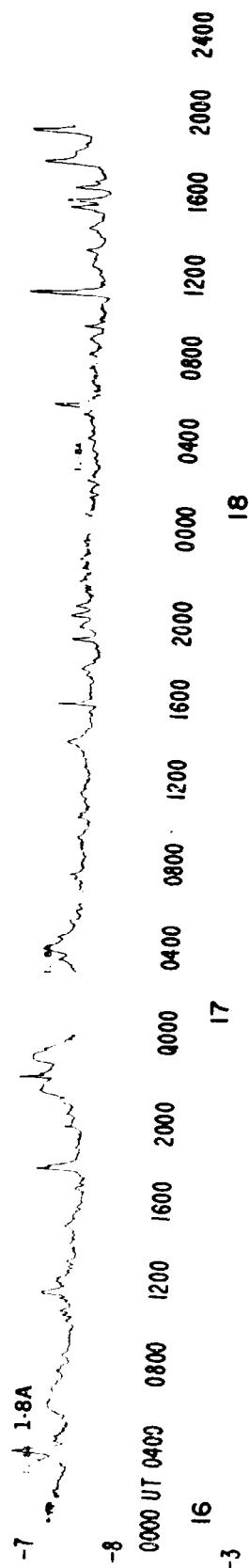
Logarithmic Scale

-3

-4

-5

-6



W/m²

Logarithmic Scale

-3

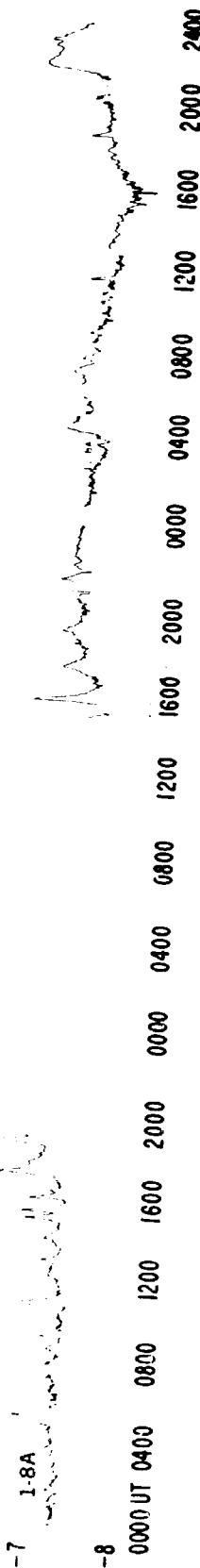
-4

-5

-6

-7

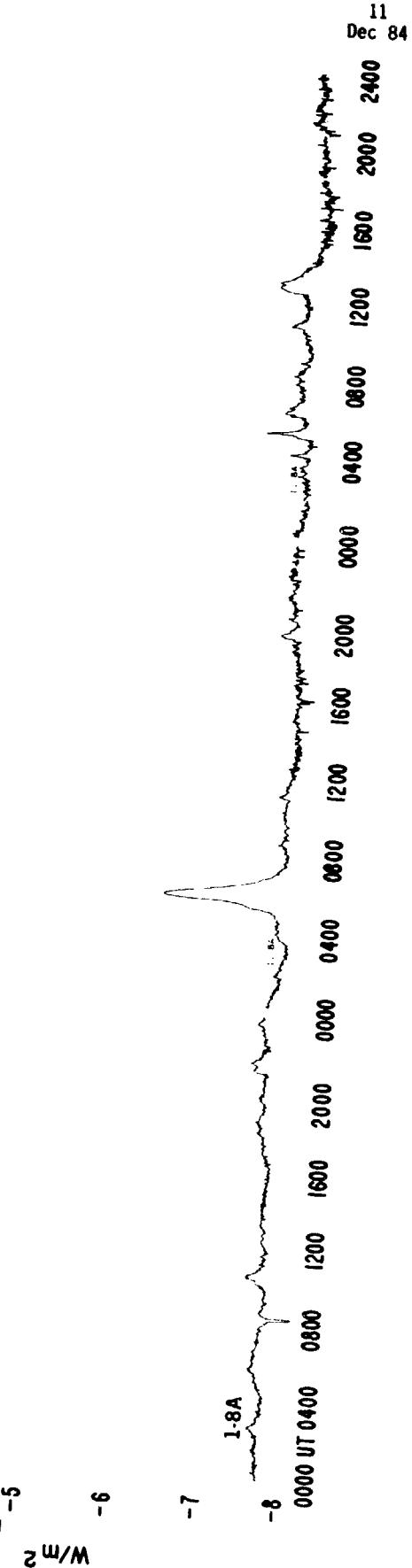
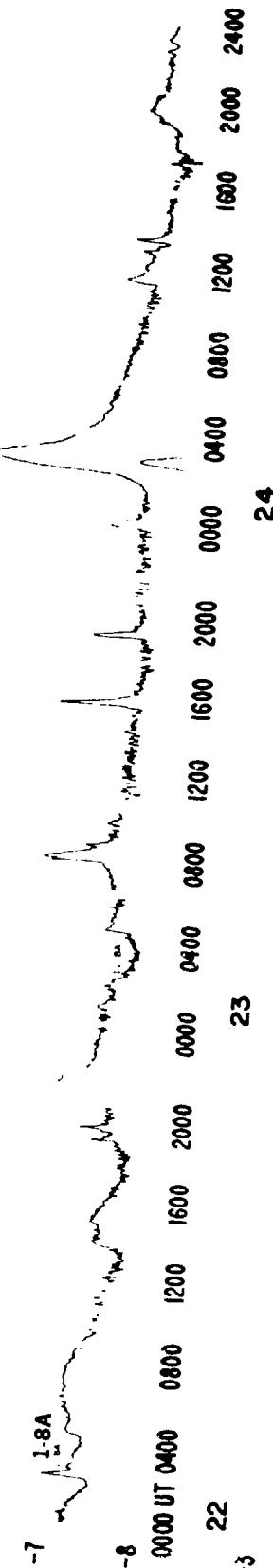
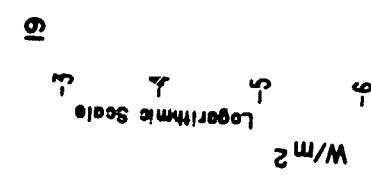
-8



GOES 6 X-RAYS

DECEMBER 1984

४



12
Dec 84

GOES 6 X-RAYS
DECEMBER 1984

25

-3

Logarithmic Scale

-4

-5

-6

W/m^2

26

-3

Logarithmic Scale

-4

-5

-6

-7

1.8A

-6

-5

-4

-3

28

-3

Logarithmic Scale

-4

-5

-6

-7

29

-3

Logarithmic Scale

-4

-5

-6

-7

30

-3

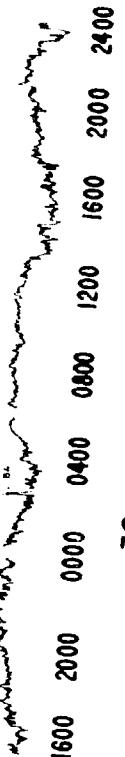
Logarithmic Scale

-4

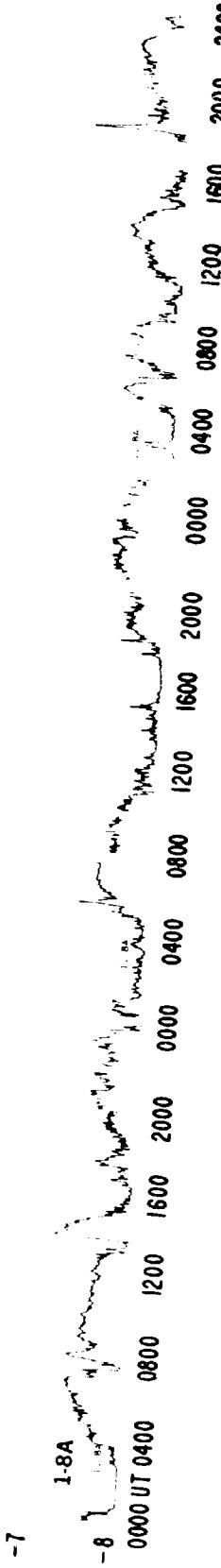
-5

-6

-7



NO DATA 31 DECEMBER 1984



GOES X-RAY SOLAR FLARES

13
Dec 84

December 1984

14
Dec 84

MASS EJECTIONS FROM THE SUN

DECEMBER 1984

| Sta | Day | Observed UT | | | Location | | Freq or Wavelength | Kind of Event |
|------|--------|-------------|------|--------|----------|------------------|-----------------------|---------------|
| | | Start | Max | End | RA° | R/R ₀ | | |
| WEND | Dec 01 | 1008 | 1020 | U 1033 | 072 | 1.0 | H-alpha | S |
| WEND | Dec 01 | 1339 | 1354 | U 1412 | 072 | 1.0-1.05 | H-alpha | S |
| KHAR | Dec 04 | 1040 | E | 1045 | D 252 | 1.00 | H-alpha | S |

QUALIFIERS ON START, MAX AND END TIMES

D = event ended after tabulated time
E = event began before the tabulated time
U = uncertain time

REPORTING STATIONS

KHAR = Kharkov
WEND = Wendelstein

TYPE OF EVENT

A = eruptive active region prominence
CB = coronal cloud bubble
D = coronal depletions
E = coronal enhancement
EL = coronal expanding loop
II = Type II radio burst
IVm = moving Type IV radio burst
Q = eruptive quiescent prominence
R = coronal ray or streamer
S = flare-surge if there is a known flare association
SP = flare-spray if there is a known flare association
* = movement may be caused by ionospheric refraction

DECEMBER 1984

| Type | Day | Observed UT | | Obs | | | | | |
|------|--------|-------------|-------|-----|-----|-----|------|------|---------------------------------------|
| | | Start | End | Lat | CMD | Imp | Type | Sta | Remarks |
| BSL | Dec 01 | 1025E | 1025D | N14 | E90 | 1- | C | CATA | |
| APR | Dec 01 | 1045 | 1413 | N18 | E90 | 1 | C | WEND | J, A, X1. |
| APR | Dec 01 | 1447 | 1504D | N18 | E90 | 1 | C | WEND | A, X1. |
| SDF | Dec 02 | 1130E | 1105D | S10 | W39 | 1 | C | CATA | |
| AFS | Dec 03 | 0011 | 0203 | S08 | E73 | | V | MANI | |
| ADF | Dec 03 | 0011 | 0203 | S07 | W73 | 1 | V | MANI | |
| SDF | Dec 03 | 0234 | 2141 | S27 | E66 | 1 | C | CULG | .08 R, overnight. |
| SDF | Dec 04 | 2052 | 0055 | S16 | E09 | 1 | C | CULG | .11 R, faint filament. |
| SDF | Dec 05 | 0212 | 0513 | S50 | E02 | 1 | C | CULG | .09 R, faint filament. |
| SDF | Dec 05 | 2235 | 0313 | S32 | W03 | 1 | C | CULG | Less than .10 R, over several hours. |
| AFS | Dec 07 | 0022 | 0225 | S04 | E17 | | V | MANI | |
| ADF | Dec 07 | 0022 | 0225 | S05 | E20 | 1 | V | MANI | |
| ASR | Dec 07 | 0725 | 1140 | N08 | E90 | | V | ATHN | |
| ADF | Dec 07 | 0725 | 1140 | S08 | W45 | | V | ATHN | |
| BSL | Dec 07 | 0910 | 0955D | S50 | W90 | 1- | C | CATA | |
| BSL | Dec 07 | 0950 | 0955D | S76 | W90 | 1- | C | CATA | |
| BSL | Dec 07 | 0950 | 0955D | S80 | E90 | 1- | C | CATA | |
| BSL | Dec 07 | 1025E | 1035 | S76 | W90 | 1- | C | CATA | |
| BSL | Dec 07 | 1130 | 1135 | N66 | E90 | 1- | C | CATA | |
| BSL | Dec 07 | 1150E | 1155 | S24 | W90 | 1- | C | CATA | |
| BSL | Dec 07 | 1250 | 1300 | S53 | W90 | 1- | C | CATA | |
| AFS | Dec 08 | 0930 | 1400 | S09 | E29 | | V | ATHN | |
| DSD | Dec 08 | 2124 | 0030 | S03 | W15 | 1 | C | CULG | Less than .10 R, B, to West. |
| BSD | Dec 08 | 2124 | 0030 | S03 | W15 | 1 | C | CULG | Less than .10 R, B, to West. |
| BSL | Dec 09 | 0715E | 0720D | N15 | E90 | 1 | C | CATA | |
| BSL | Dec 09 | 0730E | 0735 | S61 | W90 | 1- | C | CATA | |
| BSL | Dec 09 | 0915 | 0925 | S72 | W90 | 1- | C | CATA | |
| BSL | Dec 09 | 1030E | 1035 | N34 | E90 | 1- | C | CATA | |
| BSL | Dec 09 | 1110E | 1145D | N21 | E90 | 1 | C | CATA | |
| BSL | Dec 09 | 1125 | 1130 | S73 | E90 | 1- | C | CATA | |
| BSL | Dec 09 | 1125 | 1130 | S68 | E90 | 1- | C | CATA | |
| BSL | Dec 09 | 1215 | 1245D | N20 | E90 | 1 | C | CATA | |
| ADF | Dec 10 | 0035 | 0738 | S11 | E12 | 2 | V | MANI | |
| BSD | Dec 10 | 0040 | 0456 | S12 | E05 | 1 | C | CULG | Less than .10 R, A. |
| ASR | Dec 10 | 0700 | 1400 | N15 | E90 | | V | ATHN | |
| BSL | Dec 10 | 0725E | 0730D | N22 | E90 | 1- | C | CATA | |
| BSL | Dec 10 | 0745 | 0805 | S52 | E90 | 1- | C | CATA | |
| BSL | Dec 10 | 0750 | 0810D | S65 | E90 | 1- | C | CATA | |
| ADF | Dec 10 | 0805 | 1400 | S05 | E55 | | V | ATHN | |
| ADF | Dec 10 | 0805 | 1400 | N15 | W25 | | V | ATHN | |
| ADF | Dec 10 | 0805 | 1400 | S04 | W30 | | V | ATHN | |
| BSL | Dec 10 | 0820E | 0830 | S58 | W90 | 1- | C | CATA | |
| BSL | Dec 10 | 0955 | 1010D | N16 | W90 | 1- | C | CATA | |
| AFS | Dec 11 | 0025 | 0757 | S11 | E09 | | V | MANI | |
| AFS | Dec 11 | 0025 | 0757 | N18 | E74 | | V | MANI | |
| ADF | Dec 11 | 0025 | 0757 | S13 | E18 | 1 | V | MANI | |
| ADF | Dec 11 | 0025 | 0757 | S04 | W36 | 2 | V | MANI | |
| ADF | Dec 11 | 0025 | 0757 | N16 | W31 | 2 | V | MANI | |
| AFS | Dec 11 | 0725 | 1400 | S12 | E03 | | V | ATHN | |
| BSL | Dec 11 | 0805 | 0835D | S53 | E90 | 1- | C | CATA | |
| BSL | Dec 11 | 1120 | 1125 | S61 | W90 | 1- | C | CATA | |
| DSD | Dec 11 | 2130 | 0415 | S13 | W02 | 1 | C | CULG | Less than .10 R, B, to West and East. |
| ASR | Dec 12 | 0650 | 0925 | S31 | W90 | | V | ATHN | |
| AFS | Dec 12 | 0650 | 0925 | S14 | W06 | | V | ATHN | |
| APR | Dec 12 | 0750 | 0925 | S08 | W90 | | V | ATHN | |
| BSL | Dec 12 | 0910 | 0925 | S63 | W90 | 1- | C | CATA | |

16
Dec 84

ACTIVE PROMINENCES AND FILAMENTS

DECEMBER 1984

| Type | Day | Observed UT | | | Obs | | | | |
|------|--------|-------------|-------|-----|-----|-----|------|------|--|
| | | Start | End | Lat | CMD | Imp | Type | Sta | Remarks |
| AFS | Dec 13 | 0825 | 1400 | S12 | W23 | | V | ATHN | |
| AFS | Dec 13 | 0825 | 1400 | S13 | W23 | | V | ATHN | |
| AFS | Dec 14 | 0121 | 0418 | S10 | W32 | | V | MANI | |
| ADF | Dec 14 | 0121 | 0418 | N19 | E43 | 1 | V | MANI | |
| BSL | Dec 14 | 1125 | 1130D | S37 | W90 | 1- | C | CATA | |
| BSL | Dec 14 | 1140E | 1150 | S76 | W90 | 1- | C | CATA | |
| APR | Dec 15 | 0041 | 0740 | N16 | W90 | 2 | V | MANI | |
| AFS | Dec 15 | 0041 | 0740 | S11 | W76 | | V | MANI | |
| ADF | Dec 15 | 0041 | 0740 | S15 | W46 | 1 | V | MANI | |
| AFS | Dec 15 | 0041 | 0740 | N16 | E28 | | V | MANI | |
| SDF | Dec 15 | 0234 | 0425 | N27 | E28 | 1 | C | CULG | Less than .10 R, eruptive. |
| ADF | Dec 15 | 0805 | 1400 | N22 | E25 | | V | ATHN | |
| BSL | Dec 15 | 0945 | 0950 | N78 | E90 | 1- | C | CATA | |
| ADF | Dec 16 | 0725 | 1010 | N17 | E13 | | V | ATHN | |
| AOF | Dec 17 | 0821 | 1400 | N26 | W03 | | V | ATHN | |
| ASR | Dec 17 | 0821 | 1400 | S24 | E90 | | V | ATHN | |
| ASR | Dec 17 | 1230 | 1400 | S13 | E90 | | V | ATHN | |
| ADF | Dec 19 | 0128 | 0902 | N17 | W24 | 2 | V | MANI | |
| ADF | Dec 19 | 0128 | 0902 | S18 | E73 | 2 | V | MANI | |
| SDF | Dec 19 | 0428 | 2041 | N22 | E06 | 2 | C | CULG | Between .15 and .30 R, overnight. |
| ADF | Dec 19 | 2345 | 0845 | S18 | W39 | 2 | V | MANI | |
| ADF | Dec 20 | 0014 | 0746D | S18 | E03 | 1 | C | CULG | Less than .10 R. Between .15 and .30 R, overnight. |
| SDF | Dec 20 | 0746 | 2042 | N22 | E12 | 2 | C | CULG | |
| ADF | Dec 21 | 0059 | 0735 | N20 | W51 | 1 | V | MANI | |
| ADF | Dec 21 | 0059 | 0735 | N12 | W10 | 1 | V | MANI | |
| ADF | Dec 21 | 0059 | 0735 | S16 | E43 | 1 | V | MANI | |
| ADF | Dec 21 | 2029 | 0722* | S14 | E14 | 3 | C | CULG | Filament is part of system that is within 1/3 solar radius of point given. Position good on 21st December. |
| SDF | Dec 21 | 2029 | 0722* | S14 | E14 | 3 | C | CULG | |
| ADF | Dec 21 | 2332 | 0136 | SC8 | E33 | 2 | V | MANI | |
| ADF | Dec 21 | 2332 | 0136 | S12 | E20 | 2 | V | MANI | |
| AFS | Dec 21 | 2332 | 0136 | S09 | E33 | | V | MANI | |
| APR | Dec 22 | 0630 | 1300 | S32 | W90 | | V | ATHN | |
| ADF | Dec 22 | 0830 | 1300 | N07 | W06 | | V | ATHN | |
| ASR | Dec 22 | 0830 | 1300 | N06 | W90 | | V | ATHN | |
| APR | Dec 24 | 0640 | 0915 | S36 | W90 | | V | ATHN | |
| ASR | Dec 24 | 0640 | 0925 | N16 | W90 | | V | ATHN | |
| AFS | Dec 24 | 0645 | 0915 | S02 | E09 | | V | ATHN | |
| AFS | Dec 25 | 0920 | 1250 | S05 | W07 | | V | ATHN | |
| ASR | Dec 25 | 0920 | 1400 | N03 | E90 | | V | ATHN | |
| BSL | Dec 26 | 1050 | 1135 | N02 | W90 | 1- | C | CATA | |
| AFS | Dec 27 | 0022 | 0649 | S10 | E26 | | V | MANI | |
| ADF | Dec 27 | 0655 | 1400 | S09 | E23 | | V | ATHN | |
| AFS | Dec 27 | 0910 | 1400 | S10 | E21 | | V | ATHN | |
| AFS | Dec 28 | 0805 | 1320 | S10 | E10 | | V | ATHN | .07 R, overnight. |
| SDF | Dec 28 | 0842 | 2056 | N11 | W24 | 1 | C | CULG | |
| SDF | Dec 29 | 0251 | 0344 | S19 | W55 | 1 | C | CULG | .08 R. |
| AFS | Dec 30 | 0049 | 0906 | S09 | W14 | | V | MANI | |
| ADF | Dec 30 | 0049 | 0906 | S11 | W14 | 2 | V | MANI | |

*End time 0722 UT occurs on December 23, 1984.

BSL = Bright surge at limb.

ADF = Active dark filament.

AFS = Active filament system.

APR = Active prominence region at limb.

AER = Active surge region.

DSD = Dark surge on disk.

EPL = Eruptive prominence at limb.

SDF = Sudden disappearance of filament.

ATHN = Athens
BUCA = BucharestCATA = Catania
CULG = CulgooraKODA = Kodaikanal
MANI = Manila

WEND = Wendelstein

GUIDELINES FOR RECORDING PROMINENCE AND FILAMENT DATA
(CULGOORA: 01/01/85)

1. PHENOMENON: Eight types of activity are recognized.

BSL Bright Surge on Limb. Material rises and falls but not necessarily along same path. Also includes sprays.

APR Active Prominence Region. Includes cases where:
a) prominence forms and/or vanishes;
b) quiescent prominence becomes active.
It is distinct from an EPL.

EPL Eruptive Prominence on Limb, where eruption must be observed.

ADF Active Dark Filament. Same as APR, except seen on disk.

DSD Dark Surge on Disk. Same as BSL, except seen as absorption on disk.

BSD Bright Surge on Disk. Same as DSD, except seen in emission.

SDF Sudden Disappearance of Filament. Same as EPL, except seen on disk.

ASR Active Surge Region. Region with recurrent surging, where the size of individual surges does not warrant separate reporting. (Only applies as of 01/01/85).

2. IMPORTANCE:

Surges are classified according to their path length l .

1 $5\% R \leq l < 10\% R$
2 $10\% R \leq l < 20\% R$
3 $l \geq 20\% R$

l is measured along the surge.

APR and ADF are classified according to the degree of activity.

1 fluctuates in intensity;
2 movement, change of shape, or formation;
3 disappearance but not eruption.

EPL and SDF are classified according to their size prior to disappearance.

1 size $< 20^\circ$
2 $20^\circ \leq$ size $< 40^\circ$
3 size $\geq 40^\circ$

3. NOTES:

- 1) Beginning and End times may be qualified by the symbols E (in progress), D (end not observed) or U (uncertain).
- 2) Filaments that disappear overnight are classified as ADF Importance 3. To highlight this they are marked with an asterisk (i.e., ADF*) and accompanied by the remark *overnight.

Please note that these are essentially the same guidelines that were used up to the 31st August 1981. During the period 01/09/81 - 31/12/84 there were some differences in relation to the reporting of filaments. These were:

1. Filaments that disappeared (eruptive or not) were recorded as SDF.
2. The Importance of SDF's was based on their length in terms of (uncorrected) % Radius such that

1 $l < 15\% R$
2 $5\% R \leq l < 30\% R$
3 $l \geq 30\% R$

18
Dec 84

SOLAR IRRADIANCE (Daily Mean)
SOLAR MAXIMUM MISSION (ACRIM I)
Jet Propulsion Laboratory

Watts/m²

1984

| DAY | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 01 | --- | --- | --- | --- | 1366.06 | 1367.00 | 1367.23 | 1367.36 | --- | 1367.16 | 1366.95 | 1367.11 |
| 02 | --- | --- | --- | --- | 1367.26 | 1367.43 | 1367.39 | 1367.34 | --- | 1367.18 | 1366.97 | 1367.16 |
| 03 | --- | --- | --- | --- | 1367.35 | 1367.30 | 1367.34 | 1367.39 | --- | 1367.15 | 1366.99 | 1367.12 |
| 04 | --- | --- | --- | --- | 1367.50 | 1367.36 | 1367.39 | 1367.18 | --- | 1367.18 | 1366.99 | 1367.02 |
| 05 | --- | --- | --- | --- | 1367.55 | 1367.45 | 1367.40 | 1367.15 | --- | 1367.15 | 1366.99 | 1366.99 |
| 06 | --- | --- | --- | --- | 1367.31 | 1367.55 | 1367.37 | 1367.45 | --- | 1367.13 | 1367.07 | 1367.00 |
| 07 | --- | --- | --- | --- | 1367.12 | 1367.46 | 1367.43 | 1367.35 | --- | 1367.16 | 1367.04 | 1366.97 |
| 08 | --- | --- | --- | --- | 1366.79 | 1367.46 | 1367.42 | 1367.24 | --- | 1367.12 | 1366.94 | 1366.98 |
| 09 | --- | --- | --- | --- | 1366.35 | 1367.47 | 1367.38 | 1367.14 | --- | 1367.03 | 1366.96 | 1367.00 |
| 10 | --- | --- | --- | --- | 1365.97 | 1367.58 | 1367.32 | 1367.15 | --- | 1366.97 | 1366.95 | 1367.00 |
| 11 | --- | --- | --- | --- | 1365.80 | 1367.61 | 1367.25 | 1367.23 | --- | 1366.99 | 1366.98 | 1366.90 |
| 12 | --- | --- | --- | --- | 1365.88 | 1367.63 | 1367.33 | 1367.28 | --- | 1366.96 | 1367.01 | 1366.86 |
| 13 | --- | --- | --- | --- | 1367.52 | 1367.44 | 1367.44 | 1367.35 | --- | 1366.97 | 1366.63 | 1366.89 |
| 14 | 1366.54 | --- | --- | --- | 1366.45 | 1367.41 | 1367.40 | 1367.34 | --- | 1366.98 | 1367.03 | 1366.91 |
| 15 | --- | --- | --- | --- | --- | 1367.25 | 1367.39 | 1367.24 | --- | 1366.91 | --- | 1366.97 |
| 16 | 1366.64 | --- | --- | --- | 1367.18 | 1367.28 | 1367.32 | 1367.07 | --- | 1366.86 | 1367.06 | 1366.86 |
| 17 | --- | --- | --- | --- | 1367.45 | 1367.32 | 1367.29 | 1367.07 | --- | 1366.84 | 1367.06 | 1366.91 |
| 18 | --- | 1367.28 | --- | --- | 1367.60 | 1367.25 | 1367.29 | 1367.04 | --- | 1366.91 | 1367.09 | 1366.95 |
| 19 | --- | --- | 1367.00 | --- | 1367.55 | 1367.07 | 1367.23 | 1367.00 | --- | 1366.91 | 1367.13 | 1367.01 |
| 20 | --- | --- | --- | --- | 1367.53 | 1367.04 | 1367.25 | 1366.94 | --- | 1366.91 | 1367.06 | 1367.03 |
| 21 | --- | 1366.29 | --- | --- | 1367.37 | 1367.14 | 1367.16 | 1366.93 | --- | 1366.97 | 1366.99 | 1366.97 |
| 22 | 1366.47 | --- | --- | --- | 1367.23 | 1367.14 | 1367.14 | 1366.99 | --- | 1367.00 | 1366.96 | 1366.97 |
| 23 | --- | --- | --- | --- | 1367.05 | 1367.09 | 1367.13 | 1366.97 | --- | 1367.05 | 1366.88 | --- |
| 24 | 1365.57 | --- | --- | --- | 1366.94 | 1367.09 | 1367.15 | 1366.99 | --- | 1367.07 | 1366.81 | 1366.90 |
| 25 | 1365.64 | --- | --- | --- | 1366.98 | 1364.70 | 1367.15 | 1366.96 | --- | 1367.06 | 1366.66 | 1366.91 |
| 26 | --- | --- | --- | 1364.70 | 1367.18 | 1364.70 | 1367.17 | 1367.01 | --- | 1367.02 | 1366.55 | 1366.98 |
| 27 | --- | --- | --- | 1367.41 | 1366.97 | 1367.10 | 1367.05 | 1367.05 | --- | 1367.04 | 1366.53 | 1366.97 |
| 28 | --- | --- | --- | 1367.55 | 1367.22 | 1367.17 | 1367.17 | --- | 1367.01 | 1366.68 | --- | 1366.98 |
| 29 | --- | --- | --- | 1367.46 | 1367.33 | 1367.15 | 1367.15 | --- | 1366.95 | 1366.96 | 1366.98 | 1366.98 |
| 30 | 1365.64 | --- | --- | 1367.25 | 1367.25 | 1367.30 | 1367.16 | 1367.16 | --- | 1366.97 | 1366.99 | 1366.97 |
| 31 | --- | --- | --- | 1367.03 | 1367.03 | 1367.03 | 1367.03 | 1366.97 | 1366.97 | 1366.97 | 1367.02 | 1367.02 |

C O N T E N T S

Comprehensive Reports DATA FOR MARCH, APRIL and MAY 1983 Number 490 Part II

| | Page |
|---|---------|
| SOLAR FLARES March 1983 | |
| H-alpha Flares (Preliminary Data) | 20 - 37 |
| Daily Flare Indices (not available at time of publication.) | |
| Intervals of no flare patrol observation | 38 |
| SOLAR FLARES April 1983 | |
| H-alpha Flares (Preliminary Data) | 39 - 55 |
| Daily Flare Indices (not available at time of publication.) | |
| Intervals of no flare patrol observation | 56 |
| SOLAR FLARES May 1983 | |
| H-alpha Flares (Preliminary Data) | 57 - 86 |
| Daily Flare Indices (not available at time of publication.) | |
| Intervals of no flare patrol observation | 87 |
| NUMBER OF FLARES August 1966 - May 1983 | 88 |

20
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/ USAF CMD | | | | Dur (Min) | Imp Opt | Obs Xray | Time (UT) | Area Measurement | | | | | | |
|----------|------|--------------|-------------|-------------|----------------------|-----------------|-----------|-------|--------------|------------|-------------|--------------|------------------|-------------------------------------|------------------|---------|------|------|---|
| | | | | | Lat | Region | CMP Mo | Day | | | | | Time | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | | | |
| 0001 | MANI | 01 | 00214 | 00224 | 0035 | S12 | E54 | 4102 | 03 | 5.1 | 14 | SN C 2.1 | | 85 | 1.6 | CEFIJ | | | |
| | | 01 | 0020E | 0624 | 0028D | S13 | E56 | 4102 | 03 | 5.2 | 8D | SF C 2.1 | 1 | v | 30 | .5 | F | | |
| | HOLL | 01 | 0021 | 0022 | 0053 | S13 | E51 | 4102 | 03 | 4.9 | 12 | SN C 2.1 | 2 | C | 60 | | F | | |
| | CULG | 01 | 0024 | 0026 | 0033 | S11 | E56 | 4102 | 03 | 5.2 | 9 | SN C 2.1 | | C | 0026 | 100 | 1.8 | F | |
| | PALE | 01 | 0025 | 0026 | 0036 | S12 | E54 | 4102 | 03 | 5.1 | 11 | SN C 2.1 | 3 | C | | 105 | | | |
| | VORO | 01 | 0025 | 0026 | 0038 | S14 | E53 | 4102 | 03 | 5.2 | 13 | IF C 2.1 | | C | 0026 | 134 | 2.4 | CEIJ | |
| 0002 | | 01 | 02113 | 02143 | 0225 | S20 | E64 | 4104 | 03 | 6.0 | 14 | SN C 2.8 | | | 66 | 1.4 | CEIJ | | |
| | VORO | 01 | 0211 | 0214 | 0224 | S22 | E65 | 4104 | 03 | 6.1 | 13 | SF C 2.8 | | C | 0214 | 81 | | CEIJ | |
| | PALE | 01 | 0211 | 0218U | 0231 | S19 | E64 | 4104 | 03 | 6.0 | 20 | SN C 2.8 | 3 | C | | 52 | | | |
| | YUNN | 01 | 0214 | 0217 | 0220 | S20 | E62 | 4104 | 03 | 5.8 | 6 | SN C 2.8 | | C | | 64 | 1.4 | | |
| 0003 | PALE | 01 | 0304 | 0305 | 0313 | S21 | E59 | 4104 | 03 | 5.6 | 9 | SF C 1.3 | 3 | C | | 64 | | | |
| 0004 | LEAR | 01 | 0356 | 0356 | 0404 | S14 | E08 | 4098 | 03 | 1.8 | 8 | SF | | 3 | C | | 25 | | |
| 0005 | | 01 | 0705 | 07061 | 0714 | S15 | E06 | 4108 | 03 | 1.7 | 9 | SN | | | | 41 | .4 | | |
| | CULG | 01 | 0705 | 0706 | 0716 | S15 | E06 | 4108 | 03 | 1.7 | 11 | SF | | C | 0706 | 50 | .5 | | |
| | YUNN | 01 | 0707E | 0707 | 0712 | S15 | E06 | 4108 | 03 | 1.7 | 5D | SN | | P | | 32 | .3 | | |
| 0006 | | 01 | 07078 | 0717 | 0723 | S12 | W87 | | 02 | 22.8 | 16 | SN C 3.5 | | | | 16 | | D | |
| | YUNN | 01 | 0707 | 0717 | 0722 | S12 | W88 | | 02 | 22.8 | 15 | SN C 3.5 | | P | | 16 | | | |
| | ISTA | 01 | 0715 | | 0722 | S15 | W88 | | 02 | 22.7 | 7 | SB C 3.5 | | | | | | D | |
| | ATHN | 01 | 0715E | 0717 | 0724 | S10 | W86 | | 02 | 22.9 | 9D | SN C 3.5 | 3 | V | 0717 | | | | |
| 0007 | | 01 | 0715 | 0718 | 0724 | S20 | E60 | 4104 | 03 | 5.9 | 9 | SN | | | | 16 | .3 | E | |
| | ISTA | 01 | 0715 | 0724 | 0724 | S21 | E60 | 4104 | 03 | 5.9 | 9 | SN | | | | 16 | .3 | E | |
| | YUNN | 01 | 0715 | 0718 | 0724 | S20 | E61 | 4104 | 03 | 6.0 | 9 | SN | | P | | 16 | .3 | | |
| 0008 | | 01 | 0822 | 0822 | 0822 | S07 | W57 | | 02 | 25.2 | 9 | SN | | | | 34 | 1.0 | E | |
| | KAND | 01 | 0752E | 0806U | 0819 | S06 | W56 | | 02 | 25.2 | 27D | SN | | C | | 52 | 1.0 | E | |
| | LEAR | 01 | 0822 | 0822 | 0826 | S08 | W58 | | 02 | 25.1 | 4 | SF | | 3 | C | | 16 | | |
| 0009 | HTPR | 01 | 0905 | 0920 | 0930 | S08 | W58 | | 02 | 25.1 | 25 | SF | | C | 0920 | 40 | .8 | | |
| 0010 | KHAR | 01 | 0916E | | 0937D | S10 | W90 | | 02 | 22.7 | 21D | SF | | V | 0920 | | | | |
| 0011 | | 01 | 0945 | 0948 | 0955 | S22 | E09 | 4097A | 03 | 2.1 | 10 | SF | | | | 85 | .9 | E | |
| | HTPR | 01 | 0945 | 0948 | 0955 | S23 | E09 | 4097A | 03 | 2.1 | 10 | SF | | C | 0948 | 50 | .5 | E | |
| | KHAR | 01 | 0947E | | 1000D | S21 | E09 | 4097A | 03 | 2.1 | 13D | SF | | P | 0947 | 120 | 1.3 | E | |
| 0012 | | 01 | 0956 | 1000 | 1016 | S14 | E02 | 4098 | 03 | 1.6 | 20 | SN | | | | 150 | 1.5 | EL | |
| | KHAR | 01 | 0953E | 1000 | 1024D | S13 | E03 | 4098 | 03 | 1.6 | 31D | SF | | P | 1000 | 200 | 2.0 | EL | |
| | HTPR | 01 | 0956 | 1000 | 1016 | S15 | E02 | 4098 | 03 | 1.6 | 20 | SN | | C | 1000 | 100 | 1.0 | E | |
| 0013 | | 01 | 1015E | | 1117D | S10 | W90 | | 02 | 22.8 | 62D | SN | | | | | | | |
| | KHAR | 01 | 1015E | | 1034D | S10 | W90 | | 02 | 22.8 | 19D | SF | | V | | 1017 | | | |
| | KHAR | 01 | 1047E | | 1117D | S10 | W90 | | 02 | 22.8 | 30D | SN | | V | | 1048 | | | |
| 0014 | | 01 | 1025 | | 1100D | S20 | E62 | 4104 | 03 | 6.2 | 35D | SF | | | | 70 | .8 | | |
| | HTPR | 01 | 1025 | | 1100D | S20 | E60 | 4104 | 03 | 6.0 | 35D | SF | | C | 1043 | 40 | .8 | | |
| | KHAR | 01 | 1033E | | 1047D | S20 | E63 | 4104 | 03 | 6.2 | 14D | SF | | P | 1037 | 100 | | | |
| 0015 | ISTA | 01 | 1100 | | 1110 | S21 | W88 | | 02 | 22.8 | 10 | SN | | | | | | D | |
| | | 01 | 1245 | | 1251 | No Flare Patrol | | | | | | | | | | | | | |
| | | 01 | 1313 | | 1336 | No Flare Patrol | | | | | | | | | | | | | |
| | | 01 | 1526 | | 1525 | No Flare Patrol | | | | | | | | | | | | | |
| 0016 | RAMY | 01 | 1544 | 1620 | 1639 | S14 | E45 | 4102 | 03 | 5.0 | 55 | SN | | 3 | C | | 78 | | |
| | | 01 | 1601 | | 1609 | No Flare Patrol | | | | | | | | | | | | | |
| 0017 | RAMY | 01 | 1615 | 1628 | 1633 | S21 | E37 | 4104 | 03 | 6.0 | 18 | SF | | 3 | C | | 38 | | |
| 0018 | RAMY | 01 | 1659 | 1717 | 1839 | S19 | E55 | 4104 | 03 | 5.9 | 100 | SN C 1.2 | 3 | C | | | 30 | | |
| 0019 | PALE | 01 | 1824 | 1831 | 1847 | S12 | E44 | 4102 | 03 | 5.1 | 23 | SN C 1.1 | 3 | C | | | 80 | | F |

H - ALPHA SOLAR FLARES

21
Mar 83

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF | | | Dur- (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | |
|----------|------|-------|---------------|-------------|--------------|--------------|---------------|--------|--------|---------------|-----|-----|--------------|------------------|------|-----|------|-------------------------|----------|-------|
| | | | | | | | CMD | Region | Mo Day | | | | | Opt | Xray | See | Type | (10 ⁻⁶ Disk) | (Sq Deg) | Corr |
| 0020 | 01 | 1854* | 19103 | 1922 | S13 E44 4102 | 03 | 5.1 | 28 | SF C | 1.0 | | | | | | | | 33 | | |
| | RAMY | 01 | 1854 | 1913 | 1925 | S14 E44 4102 | 03 | 5.1 | 31 | SF C | 1.0 | 3 | C | | | | | 46 | | |
| | PALE | 01 | 1910 | 1910 | 1919 | S12 E44 4102 | 03 | 5.1 | 9 | SF C | 1.0 | 3 | C | | | | | 20 | | |
| 0021 | RAMY | 01 | 1931 | 1940 | 1956 | S13 E48 4102 | 03 | 5.4 | 25 | SF | | 3 | C | | | | | 137 | | |
| 0022 | 01 | 1939 | 1940 | 1948 | S16 W03 4098 | 03 | 1.6 | 9 | SN C | 1.9 | | | | | | | | 52 | | F |
| | RAMY | 01 | 1939 | 1940 | 1946 | S16 W03 4098 | 03 | 1.6 | 7 | SF C | 1.9 | 3 | C | | | | | 50 | | |
| | HOLL | 01 | 1942E | 1942U | 1949 | S15 W03 4098 | 03 | 1.6 | 7D | SN C | 1.9 | 3 | C | | | | | 55 | | F |
| 0023 | PALE | 01 | 2004 | 2004 | 2016 | S19 E56 4104 | 03 | 6.1 | 12 | SF | | 3 | C | | | | | 28 | | |
| 0024 | 01 | 2054 | 1927* | 2108 | S23 E51 4104 | 03 | 5.8 | 14 | IN C | 4.9 | | | | | | | | 214 | 2.1 | EFKUZ |
| | HOLL | 01 | 1846E | 1927 | 2104D | S24 E52 4104 | 03 | 5.8 | 138D | 1F | | 3 | C | | | | | 247 | | K |
| | HOLL | 01 | 1846E | 2058 | 2104D | S24 E52 4104 | 03 | 5.8 | 138D | 2B | | 3 | C | | | | | 417 | | ZUK |
| | RAMY | 01 | 2054 | 2055 | 2101D | S24 E51 4104 | 03 | 5.8 | 7D | SN C | 4.9 | 3 | C | | | | | 106 | | F |
| | CULG | 01 | 2054 | 2057 | 2109 | S21 E52 4104 | 03 | 5.8 | 15 | IB C | 4.9 | | C | 2057 | | | | 130 | 2.1 | FE |
| | PALE | 01 | 2054 | 2058 | 2108 | S22 E51 4104 | 03 | 5.8 | 14 | IB C | 4.9 | 3 | C | | | | | 169 | | FE |
| 0025 | 01 | 21012 | 21134 | 2226 | S15 W04 4098 | 03 | 1.6 | 85 | IB C | 8.3 | | | | | | | 419 | 3.0 | EFU | |
| | CULG | 01 | 2101 | 2113 | 2226 | S16 W04 4098 | 03 | 1.6 | 85 | IB C | 8.3 | | C | 2113 | | | | 300 | 3.0 | FE |
| | HOLL | 01 | 2102 | 2114 | 2148D | S15 W04 4098 | 03 | 1.6 | 46D | 2B C | 8.3 | 3 | C | | | | | 548 | | |
| | PALE | 01 | 2103 | 2117 | 2225 | S14 W04 4098 | 03 | 1.6 | 82 | IN C | 8.3 | 3 | C | | | | | 408 | | U |
| 0026 | 01 | 22051 | 22082 | 2220 | S21 E53 4104 | 03 | 6.0 | 15 | SN C | 5.6 | | | | | | | 95 | 1.9 | EF | |
| | CULG | 01 | 2205 | 2208 | 2217 | S19 E54 4104 | 03 | 6.0 | 12 | SN C | 5.6 | | C | 2208 | | | | 110 | 1.9 | |
| | PALE | 01 | 2206 | 2210 | 2223 | S19 E52 4104 | 03 | 5.9 | 17 | SN C | 5.6 | 3 | C | | | | | 101 | | F |
| | HOLL | 01 | 2210E | 2210U | 2215D | S24 E52 4104 | 03 | 5.9 | 50 | SB C | 5.6 | 2 | C | | | | | 75 | | E |
| 0027 | 01 | 2313* | 2315* | 2328 | S20 E50 4104 | 03 | 5.8 | 15 | IN C | 2.7 | | | | | | | 138 | 2.4 | FH | |
| | PALE | 01 | 2313 | 2315 | 2320 | S19 E49 4104 | 03 | 5.7 | 7 | IN C | 2.7 | 3 | C | | | | | 179 | | |
| | CULG | 01 | 2313 | 2315 | 2330 | S19 E54 4104 | 03 | 6.1 | 17 | IN C | 2.7 | | C | 2315 | | | | 140 | 2.4 | H |
| | LEAR | 01 | 2321 | 2326 | 2331 | S21 E49 4104 | 03 | 5.7 | 10 | SN | | 3 | C | | | | | 130 | | F |
| | PALE | 01 | 2325 | 2326 | 2332 | S19 E48 4104 | 03 | 3.6 | 7 | SF | | 3 | C | | | | | 103 | | |
| 0028 | PALE | 02 | 0023 | 0031 | 0037 | S19 E53 4104 | 03 | 6.1 | 14 | SF | | 3 | C | | | | | 46 | | |
| 0029 | CULG | 02 | 0049 | 0054 | 0100 | N13 W15 | 02 | 28.9 | 11 | SN | | | C | 0054 | | | | 20 | .3 | |
| 0030 | 02 | 0136* | 0140* | 0203 | S19 E52 4104 | 03 | 6.0 | 27 | IN C | 3.6 | | | | | | | 153 | 2.5 | FJK | |
| | PALE | 02 | 0136 | 0140 | 0157 | S19 E52 4104 | 03 | 6.0 | 21 | IN C | 3.6 | 3 | C | | | | | 166 | | FK |
| | PALE | 02 | 0136 | 0149 | 0157 | S19 E52 4104 | 03 | 6.0 | 21 | IN | | 3 | C | | | | | 178 | | K |
| | CULG | 02 | 0138 | 0141 | 0208 | S19 E51 4104 | 03 | 5.9 | 30 | IN | | | C | 0141 | | | | 180 | 2.9 | J |
| | YUNN | 02 | 0138 | 0142 | 0153 | S20 E50 4104 | 03 | 5.9 | 15 | IN | | | C | | | | | 145 | 2.3 | |
| | PALE | 02 | 0159 | 0204 | 0214 | S19 E52 4104 | 03 | 6.0 | 15 | SB C | 2.3 | 3 | C | | | | | 103 | | |
| | YUNN | 02 | 0202 | 0205 | 0208 | S20 E52 4104 | 03 | 6.1 | 6 | IB C | 2.3 | | C | | | | | 145 | 2.4 | |
| 0031 | PALE | 02 | 0318 | 0318 | 0332 | S19 E51 4104 | 03 | 6.0 | 14 | SF C | 1.0 | 3 | C | | | | | 29 | | |
| 0032 | PALE | 02 | 0355 | 0357 | 0402 | S17 E48 4104 | 03 | 5.8 | 7 | SF | | 3 | C | | | | | 27 | | |
| 0033 | 02 | 04191 | 04231 | 0435 | S20 E49 4104 | 03 | 5.9 | 16 | SB C | 2.4 | | | | | | | 79 | 1.8 | F | |
| | LEAR | 02 | 0419 | 0423 | 0435 | S20 E49 4104 | 03 | 5.9 | 16 | SB C | 2.4 | 3 | C | | | | | 45 | | F |
| | YUNN | 02 | 0420 | 0424 | 0432D | S20 E49 4104 | 03 | 5.9 | 12D | SB C | 2.4 | | P | | | | | 113 | 1.8 | |
| 0034 | YUN | 02 | 0616 | 0619 | 0622 | S20 E50 4104 | 03 | 6.1 | 6 | SF | | | C | | | | | 32 | .5 | |
| 0035 | 02 | 07112 | 0714 | 0721 | S20 E46 4104 | 03 | 5.8 | 10 | SF C | 1.4 | | | | | | | 74 | 1.1 | F | |
| | LEAR | 02 | 0711 | 0714 | 0719 | S20 E47 4104 | 03 | 5.9 | 8 | SF C | 1.4 | 3 | C | | | | | 82 | | F |
| | CULG | 02 | 0712 | 0714 | 0719 | S19 E46 4104 | 03 | 5.8 | 7 | SN C | 1.4 | | C | 0714 | | | | 80 | 1.1 | |
| | HTPR | 02 | 0713 | 0714 | 0725 | S20 E46 4104 | 03 | 5.8 | 12 | SF C | 1.4 | | C | 0714 | | | | 50 | 1.1 | |
| 0036 | HTPR | 02 | 0727 | 0727 | 0736 | S14 E37 4102 | 03 | 5.1 | 9 | SF | | | C | 0727 | | | | 20 | .3 | E |
| 0037 | 02 | 0908 | 09114 | 0925 | N16 W17 | 03 | 1.1 | 17 | SF | | | | | | | | 38 | .4 | | |
| | HTPR | 02 | 0908 | 0911 | 0925 | N17 W17 | 03 | 1.1 | 17 | SF | | | C | 0911 | | | | 20 | .2 | |
| | CATA | 02 | 0915E | 0915 | 0915D | N15 W17 | 03 | 1.1 | 17D | S | | 2 | P | 0915 | | | | 56 | .6 | |

22
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | Corr (Sq Deg) | Remarks | | | |
|----------|------|-----|---------------|-------------|-------------|-----------------|---------------|--------|----|--------------|-----|-----|--------------|------------------|-------|------------------|---------|------|-----|--|
| | | | | | | | CMD | Region | Mo | | | | | Opt | X-ray | See | Type | | | |
| C-10 | LEAR | 02 | 0918* | 0923* | 0952 | S19 | E46 | 4104 | 03 | 5.9 | 34 | SN | C | 2,4 | | 93 | 1.2 | EKLT | | |
| | LEAR | 02 | 0918 | 0923 | 0953D | S20 | E45 | 4104 | 03 | 5.8 | 35D | SF | 3 | C | | 61 | | K | | |
| | LEAR | 02 | 0918 | 0934 | 0953D | S20 | E45 | 4104 | 03 | 5.8 | 35D | IN | C | 2,4 | 3 | 200 | | K | | |
| | KHAR | 02 | 0921E | | 0924D | S17 | E47 | 4104 | 03 | 6.0 | 30 | SF | | | P | 0921 | 100 | 1.6 | ET | |
| | HTPR | 02 | 0929 | 0934 | 0955 | S20 | E45 | 4104 | 03 | 5.8 | 26 | SB | C | 2,4 | C | 0934 | 80 | 1.1 | | |
| | KHAR | 02 | 0931E | 0931 | 1004D | S20 | E46 | 4104 | 03 | 5.9 | 33D | SN | | | P | 0931 | 100 | 1.6 | ELT | |
| | MONT | 02 | 0932 | 0935 | 0941 | S14 | E46 | 4104 | 03 | 5.9 | 9 | SN | C | 2,4 | C | 0935 | 70 | | | |
| | HTPR | 02 | 0937 | 0941 | 0959 | S20 | E48 | 4104 | 03 | 6.1 | 22 | SN | | | C | 0941 | 40 | .6 | E | |
| 0039 | | 02 | 1125 | 11343 | 1149 | S18 | E48 | 4104 | 03 | 6.1 | 24 | SF | | | | | 80 | 1.2 | ET | |
| | KHAR | 02 | 1114E | 1134 | 1151D | S17 | E49 | 4104 | 03 | 6.2 | 37D | SF | | | P | 1134 | 60 | .9 | T | |
| | HTPR | 02 | 1125 | 1137 | 1149 | S19 | E46 | 4104 | 03 | 6.0 | 24 | SF | | | C | 1137 | 100 | 1.4 | E | |
| | KHAR | 02 | 1212E | | 1225D | S18 | E43 | 4104 | 03 | 6.2 | 13D | SF | | | P | 1215 | 80 | 1.3 | T | |
| 0040 | HTPP | 02 | 1242 | 1245 | 1248 | S20 | E46 | 4104 | 03 | 6.0 | 6 | SF | | | C | 1245 | 50 | .7 | E | |
| 0041 | HTPR | 02 | 1335 | 1335 | 1341 | S20 | E45 | 4104 | 03 | 6.0 | 6 | SF | | | C | 1335 | 30 | .5 | E | |
| 0042 | HTPR | 02 | 1510 | 1512 | 1520 | S18 | E47 | 4104 | 03 | 6.2 | 10 | SF | | | C | 1512 | 20 | .3 | | |
| 0043 | HTPR | 02 | 1521 | | 1646D | S25 | E36 | 4104 | 03 | 5.4 | 85D | SF | | | C | 1548 | 120 | 1.5 | E | |
| | | 02 | 1650 | | 1726 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 02 | 1734 | | 1733 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 02 | 1859 | | 1917 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 02 | 1922 | | 1926 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 02 | 2002 | | 2030 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 02 | 2041 | | 2055 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 02 | 2102 | | 2110 | No Flare Patrol | | | | | | | | | | | | | | |
| 0044 | PALE | 02 | 2124E | 2128U | 2141D | S19 | E40 | 4104 | 03 | 5.9 | 17D | SF | C | 2,2 | 3 | C | | 60 | | |
| 0045 | CULG | 02 | 2221 | 2223 | 2227 | S18 | E38 | 4104 | 03 | 5.8 | 6 | SN | | | C | 2223 | 140 | 1.8 | | |
| 0046 | VORO | 03 | 00052 | 00072 | 0014 | S18 | E33 | 4104 | 03 | 5.5 | 9 | SN | | | | | 112 | 1.4 | DH | |
| | CULG | 03 | 0005 | 0007 | 0018 | S19 | E27 | 4104 | 03 | 5.1 | 13 | SN | | | C | 0007 | 143 | 1.8 | DH | |
| | | 03 | 0007 | 0009 | 0011 | S18 | E39 | 4104 | 03 | 6.0 | 4 | SN | | | C | 0009 | 80 | 1.1 | | |
| 0047 | CULG | 03 | 0427 | 0433 | 0442 | S08 | E18 | 4105 | 03 | 4.5 | 15 | SN | | | C | 0433 | 170 | 1.7 | J | |
| 0048 | YUNN | 03 | 0610 | 0612 | 0616 | S09 | E17 | 4105 | 03 | 4.5 | 6 | SF | | | C | | 32 | .3 | | |
| 0049 | HTPR | 03 | 1034 | 10372 | 1058 | S06 | E15 | 4105 | 03 | 4.6 | 24 | SN | | | | | 65 | .8 | E | |
| | HTPR | 03 | 1034 | 1037 | 1059 | S09 | E15 | 4105 | 03 | 4.6 | 25 | SN | | | C | 1037 | 80 | .8 | E | |
| | MONT | 03 | 1034 | 1039 | 1058 | S04 | E15 | 4105 | 03 | 4.6 | 24 | SF | | | C | 1039 | 50 | | | |
| 0050 | HTPR | 03 | 1225 | 1233 | 1252 | S09 | E15 | 4105 | 03 | 4.6 | 27 | SF | | | C | 1233 | 50 | .5 | E | |
| 0051 | HTPR | 03 | 1422* | 1426* | 1438 | S09 | E14 | 4105 | 03 | 4.6 | 16 | SN | | | | | 60 | .6 | E | |
| | KANZ | 03 | 1422 | 1426 | 1430 | S09 | E14 | 4105 | 03 | 4.6 | 8 | SF | | | C | 1426 | 60 | .6 | E | |
| | HTPR | 03 | 1442E | | 1442D | S09 | E14 | 4105 | 03 | 4.7 | 8D | SN | | | | | | | | |
| | HTPR | 03 | 1443 | 1444 | 1447 | S09 | E14 | 4105 | 03 | 4.7 | 4 | SN | | | C | 1444 | 60 | .6 | E | |
| 0052 | HTPR | 03 | 1441 | 1443 | 1451 | S20 | E26 | 4104 | 03 | 5.6 | 10 | SF | | | | | 30 | .3 | E | |
| | HTPR | 03 | 1441 | 1443 | 1451 | S20 | E32 | 4104 | 03 | 6.0 | 10 | SF | | | C | 1443 | 30 | .3 | E | |
| | KANZ | 03 | 1442E | | 1442D | S20 | E20 | 4104 | 03 | 5.1 | 10D | SF | | | | | | | | |
| 0053 | HTPR | 03 | 1610 | 1613 | 1630 | S09 | E13 | 4105 | 03 | 4.6 | 20 | SF | | | C | 1613 | 50 | .5 | E | |
| | | 03 | 1548 | | 2048 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 03 | 2125 | | 2133 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 03 | 2208 | | 2212 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 03 | 2214 | | 2229 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 03 | 2308 | | 2316 | No Flare Patrol | | | | | | | | | | | | | | |
| 0054 | PURP | 04 | 0044E | 0044 | 0052 | S09 | E02 | 4105 | 03 | 4.2 | 8D | SN | | | C | 0044 | 34 | .2 | D | |
| 0055 | CULG | 04 | 0608 | 0609 | 0620 | S09 | E03 | 4105 | 03 | 4.5 | 12 | SN | | | C | 0609 | 100 | 1.0 | | |

H - ALPHA SOLAR FLARES

23
Mar 83

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | |
|-------|---------|-----------|----------|----------|-----------------|-------|--------|--------|-----------|------|-----|-----------|------------------|------|-----|------|-------------------------|----------|--------------|
| | | | | | Lat | CMD | Region | Mo Day | | | | | Opt | Xray | See | Type | (10 ⁻⁶ Disk) | (Sq Deg) | Corr Remarks |
| 0056 | PEKG | 04 06547 | 0701* | 0822 | S17 | W37 | 4103A | 03 | 1.5 | 88 | 10 | C | 5.4 | | | | 149 | 1.9 | BEF |
| | 04 0654 | 0701 | 0800 | S15 | W28 | 4103A | 03 | 1.4 | 66 | 1N | | | | | C | 0701 | 168 | 2.2 | E |
| | CULG | 04 0701 | 0708U | S18 | W34 | 4103A | 03 | 1.7 | 60 | SB | | | | | P | 0708 | 130 | 1.6 | E |
| | ATHN | 04 0706E | 0715 | 0758 | S18 | W38 | 4103A | 03 | 1.4 | 520 | 18 | C | 5.4 | 2 | V | 0715 | 207 | 2.8 | |
| | M/ANI | 04 0712E | 0714 | 0755 | S18 | W39 | 4103A | 03 | 1.5 | 430 | 18 | C | 5.4 | 1 | V | | 175 | 2.3 | F |
| | HTPR | 04 0717E | | 0905 | S16 | W39 | 4103A | 03 | 1.3 | 1080 | SB | C | 5.4 | | C | 0717 | 100 | 1.3 | BE |
| | KANZ | 04 0721E | 0721 | 0852 | S17 | W37 | 4103A | 03 | 1.5 | 910 | 1N | C | 5.4 | 1 | | | | | |
| | CATA | 04 0745E | 0750 | 0850U | S18 | W36 | 4103A | 03 | 1.6 | 650 | S | | | 2 | P | 0750 | 112 | 1.4 | |
| 0057 | | 04 09211 | 09255 | 0946 | S08 | E02 | 4105 | 03 | 4.5 | 25 | SF | | | | | | 30 | .3 | E |
| | KANZ | 04 0921 | 0925 | 0945 | S09 | E02 | 4105 | 03 | 4.5 | 24 | SF | | | 1 | C | 0930 | 30 | .3 | E |
| | HTPR | 04 0922 | 0930 | 0947 | S08 | E03 | 4105 | 03 | 4.6 | 25 | SF | | | | C | | | | |
| 0058 | | 04 09555 | 10003 | 1010 | S09 | E02 | 4105 | 03 | 4.6 | 15 | SN | | | | | | 62 | .6 | E |
| | CATA | 04 0955 | 1000 | 1010 | S09 | E02 | 4105 | 03 | 4.6 | 15 | S | | | 1 | C | 1000 | 84 | .9 | |
| | KANZ | 04 0957 | 1001 | 1009 | S09 | E02 | 4105 | 03 | 4.6 | 12 | SN | | | 1 | | | | | |
| | HTPR | 04 1000 | 1003 | 1010 | S08 | E03 | 4105 | 03 | 4.6 | 10 | SN | | | | C | 1003 | 40 | .4 | E |
| 0059 | | 04 1017* | 1105* | 1149 | S09 | E02 | 4105 | 03 | 4.6 | 92 | SN | | | | | | 60 | .6 | EK |
| | KANZ | 04 1017 | 1105 | 1125 | S09 | E02 | 4105 | 03 | 4.6 | 68 | SN | | | 2 | | | | | |
| | HTPR | 04 1028 | 1142 | 1210 | S08 | E02 | 4105 | 03 | 4.6 | 102 | SF | | | | C | 1142 | 60 | .6 | EK |
| | KANZ | 04 1133 | 1141 | 1153 | S09 | E02 | 4105 | 03 | 4.6 | 20 | SN | | | 3 | | | | | |
| 0060 | | 04 13313 | 13371 | 1350 | S09 | E00 | 4105 | 03 | 4.6 | 19 | SN | | | | | | 100 | 1.0 | E |
| | HTPR | 04 1331 | 1337 | 1349 | S09 | W01 | 4105 | 03 | 4.5 | 18 | SN | | | | C | 1337 | 100 | 1.0 | E |
| | KANZ | 04 1334 | 1338 | 1350 | S09 | E01 | 4105 | 03 | 4.6 | 16 | SN | | | 3 | | | | | |
| 0061 | KANZ | 04 1350 | 1350 | 1358 | S15 | W46 | 4103A | 03 | 1.1 | 3 | SF | | | 2 | | | | | |
| 0062 | HTPR | 04 1422 | | 1453D | S09 | W01 | 4105 | 03 | 4.5 | 310 | SN | | | | C | 1448 | 120 | 1.2 | E |
| 0063 | HTPR | 04 1435 | | 1453D | S15 | E08 | 4102 | 03 | 5.2 | 180 | SF | | | | C | 1444 | 50 | .5 | E |
| | | 04 1454 | | 1504 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 04 1605 | | 2054 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 04 2220 | | 2230 | No Flare Patrol | | | | | | | | | | | | | | |
| 0064 | | 04 2317 | 23231 | 2338 | S12 | E02 | 4102 | 03 | 5.1 | 21 | 1N | | | | | | 192 | 2.0 | EIJ |
| | CULG | 04 2317 | 2323 | 2339 | S14 | E01 | 4102 | 03 | 5.0 | 22 | SN | | | | C | 2323 | 160 | 1.6 | |
| | VORO | 04 2321E | 2324 | 2336 | S11 | E03 | 4102 | 03 | 5.2 | 150 | 1F | | | | C | 2324 | 224 | 2.3 | EIJ |
| 0065 | VORO | 04 2344 | 2346 | 2400 | S07 | W08 | 4105 | 03 | 4.4 | 16 | SN | | | | C | 2346 | 116 | 1.2 | CEIJ |
| 0066 | PEKG | 05 0004 | 0008 | 0013 | S09 | W09 | 4105 | 03 | 4.3 | 9 | SN | | | | P | 0008 | 92 | .9 | E |
| | | 05 1127 | | 1135 | No Flare Patrol | | | | | | | | | | | | | | |
| 0067 | HTPR | 05 1205 | 1207 | 1210 | S09 | W11 | 4105 | 03 | 4.7 | 5 | SF | | | | C | 1207 | 20 | .2 | |
| 0068 | HTPR | 05 1255 | | 1259D | S08 | W20 | 4105 | 03 | 4.0 | 40 | SF | | | | C | 1257 | 20 | .2 | |
| 0069 | KANZ | 05 1451 | 1455 | 1503 | S14 | W04 | 4108 | 03 | 5.3 | 12 | SF | | | 3 | | | | | L |
| 0070 | KANZ | 05 1455 | 1513 | 1515 | S08 | W15 | 4105 | 03 | 4.5 | 20 | SN | | | 3 | | | | | |
| 0071 | KANZ | 05 1459 | 1507 | 1511 | S13 | W62 | 4103A | 02 | 28.9 | 12 | SF | | | 2 | | | | | |
| 0072 | KANZ | 05 1546 | 1546 | 1554 | S14 | W03 | 4108 | 03 | 5.4 | 6 | SB | C | 1.5 | 3 | | | | | |
| 0073 | KANZ | 05 1557 | | 1557D | S07 | W21 | 4105 | 03 | 4.1 | 80 | SB | | | 3 | | | | | D |
| | | 05 1558 | | 2234 | No Flare Patrol | | | | | | | | | | | | | | |
| 0074 | | 06 01223 | 01254 | 0138 | S16 | W60 | 4103A | 03 | 1.5 | 16 | SN | | | | | | 90 | 1.8 | CD |
| | CULG | 06 0122 | 0125 | 0134 | S18 | W61 | 4103A | 03 | 1.4 | 12 | SN | | | | C | 0125 | 90 | 1.8 | |
| | VORO | 06 0125 | 0129 | 0142 | S15 | W60 | 4103A | 03 | 1.5 | 17 | SF | | | | C | 0129 | 90 | 1.7 | CD |
| 0075 | | 06 02241 | 02271 | 0236 | S16 | W62 | 4103A | 03 | 1.4 | 12 | SF | | | | | | 86 | 1.3 | CE |
| | VORO | 06 0224 | 0228 | 0241 | S16 | W63 | 4103A | 03 | 1.3 | 17 | SF | | | | C | 0228 | 108 | CE | |
| | PEKG | 06 0225 | 0227 | 0230 | S15 | W61 | 4103A | 03 | 1.5 | 5 | SF | | | | P | 0227 | 63 | 1.3 | E |

24
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/ USAF | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | | | | |
|----------|------|--------------|-------------|-------------|---------------|-----------------|--------|--------------|-----|-----|--------------|------------------|-----|-----|------|------|------|-------------------------|----------------------|-----------------|--|
| | | | | | Lat | CMD | Region | | | | | No | Day | Opt | Xray | See | Type | (10 ⁻⁶ Disk) | Apparent (Sq Deg) | Corr Remarks | |
| 0076 | 06 | 0720* | 0723* | 0744 | S14 | W12 | 4108 | 03 | 5.4 | 24 | 1B | C | 5.1 | | | | | 236 | 2.5 | E | |
| | CULG | 06 | 0720 | 0724 | 0743 | S16 | W14 | 4108 | 03 | 5.2 | 23 | SB | C | 5.1 | C | 0724 | 180 | 1.8 | | | |
| | PEKG | 06 | 0720 | 0726 | 0741 | S13 | W13 | 4108 | 03 | 5.3 | 21 | SB | C | 5.1 | C | 0726 | 60 | .6 | E | | |
| | MITK | 06 | 0720 | 0726 | 0746 | S14 | W12 | 4108 | 03 | 5.4 | 26 | 2N | C | 5.1 | C | 0726 | 490 | 5.2 | | | |
| | PURP | 06 | 0722 | 0723 | 0747 | S14 | W12 | 4108 | 03 | 5.4 | 25 | 1N | C | 5.1 | C | 0723 | 248 | 2.6 | | | |
| | CATA | 06 | 0725 | 0728 | 0745 | S14 | W13 | 4108 | 03 | 5.3 | 20 | 1 | C | 5.1 | 2 | C | 0728 | 281 | 3.0 | | |
| | ATHN | 06 | 0730 | 0735 | 0742 | S12 | W08 | 4108 | 03 | 5.7 | 12 | SB | | | 4 | V | 0735 | 159 | 1.7 | | |
| 0077 | ATHN | 06 | 0843 | 0847 | 0855 | S22 | W03 | 4104 | 03 | 6.1 | 12 | SN | | | 4 | V | 0847 | 127 | 1.4 | | |
| | | 06 | 1401 | | 2055 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0078 | | 07 | 0340 | 03501 | 0400 | N12 | W76 | | 03 | 1.4 | 20 | SN | C | 1.2 | | | | 33 | | G | |
| | YUNN | 07 | 0340 | 0350 | 0400 | N14 | W74 | | 03 | 1.6 | 20 | SN | C | 1.2 | C | | | 16 | | G | |
| | CULG | 07 | 0340 | 0351 | 0359 | N11 | W79 | | 03 | 1.2 | 19 | SN | C | 1.2 | C | 0351 | | 50 | | | |
| 0079 | KANZ | 07 | 1106 | 1106 | 1114 | S10 | W42 | 4105 | 03 | 4.3 | 8 | SF | | | 1 | | | | | | |
| | | 07 | 1454 | | 1504 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 1811 | | 1629 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0080 | CULG | 07 | 2241 | 2243 | 2249 | S24 | W32 | 4104 | 03 | 5.5 | 8 | SN | | | C | 2243 | 40 | .5 | H | | |
| 0081 | VORO | 07 | 2348E | 2350 | 2356 | S19 | W30 | 4104 | 03 | 5.7 | 8D | SN | | | C | 2350 | 21 | 1.0 | DIJ | | |
| 0082 | | 08 | 0002 | 00101 | 0019 | S17 | W28 | 4104 | 03 | 5.9 | 17 | 1B | | | | | 166 | 2.0 | EIJ | | |
| | CULG | 08 | 0002 | 0010 | 0019 | S19 | W28 | 4104 | 03 | 5.9 | 17 | 1N | | | C | 0010 | 170 | 2.1 | EIJ | | |
| | VORO | 08 | 0002 | 0011 | 0019 | S15 | W28 | 4104 | 03 | 5.9 | 17 | SB | | | C | 0011 | 161 | 1.9 | EIJ | | |
| 0083 | | 08 | 00503 | 0054 | 0104 | S20 | W70 | 4099 | 03 | 2.7 | 14 | SN | | | | | 32 | | CDH | | |
| | VORO | 08 | 0050 | 0054 | 0106 | S19 | W70 | 4099 | 03 | 2.7 | 16 | SN | | | C | 0054 | 45 | | CDH | | |
| | LEAR | 08 | 0053 | 0054 | 0101 | S21 | W71 | 4099 | 03 | 2.6 | 8 | SF | | | 3 | C | 20 | | H | | |
| 0084 | LEAR | 08 | 0207 | 0209 | 0229 | S20 | W31 | 4104 | 03 | 5.7 | 22 | SF | | | 3 | C | | 44 | | F | |
| 0085 | LEAR | 08 | 0409 | 0409 | 0414 | S23 | W33 | 4104 | 03 | 5.6 | 5 | SF | | | 3 | C | | 29 | | | |
| 0086 | LEAR | 08 | 0414 | 0415 | 0419 | S14 | W39 | 4102 | 03 | 5.2 | 5 | SF | | | 3 | C | | 20 | | | |
| 0087 | | 08 | 0454 | 0455 | 0504 | S18 | W32 | 4104 | 03 | 5.8 | 10 | SN | C | 1.1 | | | 80 | 1.1 | FJ | | |
| | CULG | 08 | 0454 | 0455 | 0501 | S18 | W32 | 4104 | 03 | 5.8 | 7 | SN | C | 1.1 | C | 0455 | 90 | 1.1 | J | | |
| | LEAR | 08 | 0454 | 0455 | 0508 | S18 | W32 | 4104 | 03 | 5.8 | 14 | SF | C | 1.1 | 3 | C | 69 | | F | | |
| 0088 | | 08 | 05505 | 05515 | 0558 | S24 | W35 | 4104 | 03 | 5.5 | 8 | SN | C | 1.1 | | | 35 | .5 | | | |
| | CULG | 08 | 0550 | 0551 | 0555 | S25 | W35 | 4104 | 03 | 5.5 | 5 | SN | C | 1.1 | C | 0551 | 60 | .8 | | | |
| | LEAR | 08 | 0551 | 0556 | 0600 | S24 | W35 | 4104 | 03 | 5.5 | 9 | SN | C | 1.1 | 3 | C | 30 | | | | |
| | YUNN | 08 | 0555 | 0555 | 0559 | S22 | W35 | 4104 | 03 | 5.5 | 4 | SF | C | 1.1 | P | | 16 | .2 | | | |
| 0089 | HTPR | 08 | 0715 | 0725 | 0730 | S21 | W72 | 4099 | 03 | 2.8 | 15 | SN | | | C | 0725 | 40 | | | | |
| 0090 | | 08 | 07541 | 07542 | 0811 | S21 | W34 | 4104 | 03 | 5.7 | 17 | SF | | | | | 20 | .2 | E | | |
| | KANZ | 08 | 0754 | 0754 | 0801 | S21 | W34 | 4104 | 03 | 5.7 | 7 | SF | | 1 | | | | | | | |
| | HTPR | 08 | 0754 | 0756 | 0818 | S19 | W32 | 4104 | 03 | 5.9 | 24 | SF | | | C | 0756 | 20 | .2 | | | |
| | HTPR | 08 | 0755 | 0755 | 0813 | S22 | W35 | 4104 | 03 | 5.6 | 18 | SF | | | C | 0756 | 20 | .2 | E | | |
| 0091 | KANZ | 08 | 0826 | 0830 | 0833 | S09 | W53 | 4105 | 03 | 4.4 | 7 | SF | | 3 | | | | | | | |
| 0092 | | 08 | 08472 | 08473 | 0856 | S23 | W36 | 4104 | 03 | 5.6 | 9 | SN | C | 2.1 | | | 60 | .6 | EL | | |
| | HTPR | 08 | 0847 | 0847 | 0855 | S23 | W35 | 4104 | 03 | 5.7 | 8 | SF | C | 2.1 | C | 0847 | 50 | .6 | E | | |
| | LEAR | 08 | 0847 | 0848 | 0857 | S23 | W36 | 4104 | 03 | 5.6 | 10 | SF | C | 2.1 | 3 | C | 75 | | | | |
| | WEND | 08 | 0848 | 0850 | 0856 | S22 | W35 | 4104 | 03 | 5.7 | 8 | SN | C | 2.1 | C | 0850 | 56 | .7 | EL | | |
| | KANZ | 08 | 0849 | 0849 | 0857 | S23 | W36 | 4104 | 03 | 5.6 | 8 | SN | C | 2.1 | 3 | C | | | | | |
| 0093 | | 08 | 09301 | 09365 | 0952 | S19 | W34 | 4104 | 03 | 5.8 | 22 | SN | | | | | 80 | .9 | EU | | |
| | HTPR | 08 | 0930 | 0936 | 0950 | S19 | W33 | 4104 | 03 | 5.9 | 20 | SN | | | C | 0936 | 80 | .9 | EU | | |
| | KANZ | 08 | 0931 | 0941 | 0953 | S19 | W35 | 4104 | 03 | 5.7 | 22 | SN | | 3 | | | | | | | |
| 0094 | | 08 | 10482 | 10511 | 1100 | S20 | W34 | 4104 | 03 | 5.8 | 12 | SF | | | | | 30 | .4 | E | | |
| | KANZ | 08 | 1048 | 1052 | 1059 | S20 | W33 | 4104 | 03 | 5.9 | 11 | SF | | 2 | | | 30 | .4 | E | | |
| | HTPR | 08 | 1050 | 1051 | 1102 | S19 | W34 | 4104 | 03 | 5.8 | 12 | SF | | | C | 1051 | 30 | .4 | E | | |

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | Region | OMP Mo | Dur (Min) | Imp | Obs | Area Measurement | | | | | |
|----------|------|-------|---------------|-------------|-------------|-----------------|----------------------|--------|-----------|--------------|------|-----|------------------|--|------------------|---------|-----|--|
| | | | | | | | | | | | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | | |
| 0095 | 08 | 1110* | 1114* | 1132 | S22 | W36 | 4104 | 03 | 5.7 | 22 | SN | | | 62 | .8 | E | | |
| | KANZ | 08 | 1110 | 1114 | 1125 | S24 | W38 | 4104 | 03 | 5.5 | 15 | SN | 2 | | | | | |
| | HTPR | 08 | 1112 | 1115 | 1123 | S23 | W38 | 4104 | 03 | 5.5 | 11 | SB | C | 1115 | 50 | .6 | E | |
| | CATA | 08 | 1115 | 1115 | 1125 | S23 | W37 | 4104 | 03 | 5.6 | 10 | 1 | 2 | C | 1115 | 169 | 2.2 | |
| | HTPR | 08 | 1126 | 1131 | 1149 | S18 | W32 | 4104 | 03 | 6.0 | 23 | SF | C | 1131 | 20 | .2 | E | |
| | HTPR | 08 | 1128 | 1129 | 1136 | S23 | W35 | 4104 | 03 | 5.8 | 8 | SF | C | 1129 | 10 | .1 | | |
| | KANZ | 08 | 1129 | 1129 | 1136 | S22 | W37 | 4104 | 03 | 5.6 | 7 | SF | 2 | | | | | |
| 0096 | HTPR | 08 | 1318 | 1319 | 1323 | S19 | W35 | 4104 | 03 | 5.9 | 5 | SF | C | 1319 | 20 | .2 | E | |
| 0097 | | 08 | 13322 | 1337 | 1345 | S22 | W37 | 4104 | 03 | 5.7 | 13 | SF | C | 1.1 | 23 | .2 | E | |
| | HTPR | 08 | 1332 | 1337 | 1343 | S23 | W36 | 4104 | 03 | 5.8 | 11 | SF | C | 1.1 | 20 | .2 | E | |
| | KANZ | 08 | 1333 | 1337 | 1345 | S22 | W39 | 4104 | 03 | 5.6 | 12 | SF | C | 1.1 | 2 | | | |
| | HTPR | 08 | 1333 | 1337 | 1348 | S19 | W35 | 4104 | 03 | 5.9 | 15 | SF | C | 1.1 | 20 | .2 | E | |
| | RAMY | 08 | 1334 | 1337 | 1345 | S22 | W38 | 4104 | 03 | 5.6 | 11 | SF | C | 1.1 | 28 | | | |
| 0098 | KANZ | 08 | 1353 | 1353 | 1401 | S24 | W38 | 4104 | 03 | 5.6 | 8 | SF | 2 | | | | | |
| 0099 | | 08 | 13563 | 13591 | 1408 | S14 | W45 | 4102 | 03 | 5.2 | 12 | SF | | | 16 | .1 | | |
| | HTPR | 08 | 1356 | 1359 | 1408 | S15 | W45 | 4102 | 03 | 5.2 | 12 | SF | C | 1359 | 10 | .1 | | |
| | RAMY | 08 | 1359 | 1400 | 14430 | S14 | W45 | 4102 | 03 | 5.2 | 44D | SF | 3 | C | 23 | | | |
| 0100 | | 08 | 15053 | 15112 | 1520 | S03 | W09 | 4110 | 03 | 7.9 | 15 | SF | | | 43 | .4 | E | |
| | RAMY | 08 | 1505 | 1511 | 1519 | S04 | W10 | 4110 | 03 | 7.9 | 14 | SF | 3 | C | 46 | | | |
| | KANZ | 08 | 1505 | 1513 | 1521 | S03 | W08 | 4110 | 03 | 8.0 | 16 | SF | 2 | | | | | |
| | HTPR | 08 | 1506 | | 16510 | S03 | W10 | 4110 | 03 | 7.9 | 103D | SF | C | 1610 | 40 | .4 | E | |
| (101 | | 08 | 15416 | 15455 | 1603 | S10 | W54 | 4105 | 03 | 4.6 | 22 | SF | | | 48 | | | |
| | KANZ | 08 | 1541 | 1545 | 1549 | S11 | W52 | 4105 | 03 | 4.7 | 8 | SF | 2 | | | | | |
| | RAMY | 08 | 1547 | 1550 | 1617 | S08 | W57 | 4105 | 03 | 4.4 | 30 | SF | 3 | C | 48 | | | |
| 0102 | | 08 | 15429 | 1544* | 1604 | S23 | W38 | 4104 | 03 | 5.7 | 22 | SN | | | 34 | .3 | F | |
| | HTPR | 08 | 1542 | 1544 | 1631 | S23 | W37 | 4104 | 03 | 5.8 | 49 | SB | | | 40 | .5 | | |
| | HOLL | 08 | 1544 | 1544 | 1550 | S22 | W40 | 4104 | 03 | 5.6 | 6 | SN | 3 | C | 45 | | | |
| | KANZ | 08 | 1545 | 1545 | 1557 | S23 | W40 | 4104 | 03 | 5.6 | 12 | SN | 2 | | | | | |
| | RAMY | 08 | 1547E | 1555 | 1600 | S23 | W38 | 4104 | 03 | 5.7 | 13D | SF | 3 | C | 40 | | F | |
| | HTPR | 08 | 1551 | | 16510 | S24 | W34 | 4104 | 03 | 6.0 | 60D | SF | C | 1553 | 10 | .1 | | |
| 0103 | HOLL | 08 | 1710 | 1712 | 17140 | S07 | W59 | 4105 | 03 | 4.3 | 4D | SF | 3 | C | 24 | | | |
| 0104 | HOLL | 08 | 1711 | 1712 | 17140 | S19 | W40 | 4104 | 03 | 5.7 | 3D | SF | 3 | C | 21 | | | |
| | | 08 | 1715 | | 1718 | No Flare Patrol | | | | | | | | | | | | |
| 0105 | PALE | 08 | 1758 | 1759 | 1808 | S02 | W10 | 4110 | 03 | 8.0 | 10 | SF | 3 | C | 21 | | | |
| 0106 | | 08 | 1827 | 1827 | 1834 | S18 | W41 | 4104 | 03 | 5.6 | 7 | SF | | | 28 | | | |
| | HOLL | 08 | 1827 | 1827 | 1833 | S18 | W41 | 4104 | 03 | 5.6 | 6 | SF | 3 | C | 20 | | | |
| | PALE | 08 | 1827 | 1827 | 1835 | S19 | W41 | 4104 | 03 | 5.6 | 8 | SF | 3 | C | 36 | | | |
| 0107 | | 08 | 18411 | 1843 | 1849 | S08 | W58 | 4105 | 03 | 4.4 | 8 | SF | | | 14 | | F | |
| | HOLL | 08 | 1841 | 1843 | 1850 | S07 | W57 | 4105 | 03 | 4.5 | 9 | SF | 3 | C | 15 | | | |
| | PALE | 08 | 1842 | 1843 | 1848 | S08 | W58 | 4105 | 03 | 4.4 | 6 | SF | 3 | C | 14 | | | |
| 0108 | HOLL | 08 | 1918 | 1933 | 1949 | S07 | W59 | 4105 | 03 | 4.4 | 31 | SF | 3 | C | 66 | | | |
| 0109 | HOLL | 08 | 1956 | 2001 | 2020 | S20 | W42 | 4104 | 03 | 5.6 | 24 | SN | C | 2.1 | 77 | | F | |
| 0110 | HOLL | 08 | 2050 | 2051 | 2055 | S12 | W48 | 4102 | 03 | 5.2 | 5 | SF | 3 | C | 18 | | H | |
| 0111 | HOLL | 08 | 2117 | 2118 | 2132 | S07 | W60 | 4105 | 03 | 4.4 | 15 | SF | 3 | C | 29 | | | |
| 0112 | | 08 | 2141 | 2142 | 2150 | S14 | W49 | 4102 | 03 | 5.2 | 9 | SN | | | 54 | .6 | F | |
| | CULG | 08 | 2141 | 2143 | 2143 | S16 | W49 | 4102 | 03 | 5.2 | 2 | SN | C | 2141 | 40 | .6 | | |
| | HOLL | 08 | 2141 | 2143 | 2156 | S13 | W49 | 4102 | 03 | 5.2 | 15 | SN | 3 | C | 69 | | F | |
| 0113 | HOLL | 08 | 2153 | 2157 | 2203 | S06 | W59 | 4105 | 03 | 4.5 | 10 | SF | 3 | C | 47 | | F | |

26
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/USAF | | | | Dur (Min) | Imp Opt | Obs Xray See | Time (UT) | Area Measurement | | |
|-------|----------|----------------|----------|----------|-----------|------|--------|--------|-----------|---------|--------------|-----------|----------------------------------|---------------|---------|
| | | | | | Lat | CMD | Region | Mo Day | | | | | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks |
| 0114 | HOLL | 08 2221 | 2221 | 2231 | S18 | W43 | 4104 | 03 | 5.6 | 10 | SF | 3 | C | 20 | |
| 0115 | HOLL | 08 2301 | 2311 | 2317 | S12 | W49 | 4102 | 03 | 5.3 | 16 | SF | 3 | C | 21 | |
| 0116 | 09 00098 | 0017* | 0051 | S20 | W41 | 4104 | 03 | 5.9 | 42 | SN | | | | 142 | 1.9 |
| | CULG | 09 0009 | 0017 | 0052 | S21 | W41 | 4104 | 03 | 5.9 | 43 | 1N | | | 190 | 2.6 |
| | PALE | 09 0011E | 0011U | 0048D | S21 | W39 | 4104 | 03 | 6.0 | 37D | SF | 3 | C | 75 | F |
| | HOLL | 09 0017 | 0017 | 0048 | S18 | W42 | 4104 | 03 | 5.8 | 31 | 1B | 3 | C | 207 | E |
| | LEAR | 09 0020E | 0020U | 0104 | S20 | W41 | 4104 | 03 | 5.9 | 44D | SF | 2 | C | 159 | F |
| | YUNN | 09 0023E | 0028 | 0040 | S22 | W44 | 4104 | 03 | 5.6 | 17D | SF | | P | 80 | 1.2 |
| 0117 | 09 02303 | 02323 | 0239 | S24 | W40 | 4104 | 03 | 6.0 | 9 | SN | | | | 64 | 1.3 |
| | CULG | 09 0230 | 0232 | 0240 | S25 | W39 | 4104 | 03 | 6.1 | 10 | SN | | | 100 | 1.3 |
| | PALE | 09 0233 | 0235 | 0238 | S24 | W40 | 4104 | 03 | 6.0 | 5 | SF | 3 | C | 27 | |
| 0118 | 09 04341 | 04363 | 0442 | S09 | W64 | 4105 | 03 | 4.4 | 8 | SF | | | | 44 | 1.3 |
| | CULG | 09 0434 | 0439 | 0443 | S10 | W64 | 4105 | 03 | 4.4 | 9 | SF | | | 60 | 1.3 |
| | LEAR | 09 0435 | 0436 | 0442 | S08 | W65 | 4105 | 03 | 4.3 | 7 | SF | 3 | C | 29 | |
| 0119 | ISTA | 09 0703 | | 0712 | S20 | W48 | 4104 | 03 | 5.6 | 9 | SF | | | | E |
| 0120 | KANZ | 09 0741E | 0741 | 0747 | S03 | W17 | 4110 | 03 | 8.0 | 6D | SN | 3 | | | |
| 0121 | HTPR | 09 0749E | | 0756D | N04 | W20 | 4113 | 03 | 7.8 | 7D | SF | | C | 0753 | 20 |
| 0122 | 09 0754 | 07583 | 0814 | S20 | W46 | 4104 | 03 | 5.8 | 20 | SF | | | | 31 | |
| | LEAR | 09 0754 | 0758 | 0811 | S20 | W45 | 4104 | 03 | 5.9 | 17 | SF | 3 | C | 31 | |
| | KANZ | 09 0754 | 0801 | 0817 | S20 | W46 | 4104 | 03 | 5.8 | 23 | SF | 3 | | | |
| 0123 | ISTA | 09 0825 | | 0828 | N08 | W17 | 4113 | 03 | 8.1 | 3 | SF | | | | D |
| 0124 | 09 08313 | 08391 | 0849 | S21 | W48 | 4104 | 03 | 5.7 | 18 | SF | | | | 25 | .4 |
| | KANZ | 09 0831 | 0840 | 0851 | S21 | W49 | 4104 | 03 | 5.6 | 20 | SF | 3 | | | |
| | WEND | 09 0834 | 0839 | 0847 | S21 | W48 | 4104 | 03 | 5.7 | 13 | SF | | C | 0839 | 25 |
| | | | | | | | | | | | | | | .4 | |
| 0125 | HTPR | 09 0837E | | 0841D | S16 | W50 | 4108 | 03 | 5.6 | 4D | SF | | C | 0841 | 20 |
| 0126 | KANZ | 09 0847 | 0851 | 0856 | S02 | W18 | 4110 | 03 | 8.0 | 9 | SF | 3 | | | |
| 0127 | HTPR | 09 0852E | | 0856D | N04 | W20 | 4113 | 03 | 7.9 | 4D | SF | | C | 0852 | 30 |
| 0128 | KANZ | 09 0915 | 0919 | 0926 | S13 | W73 | 4102 | 03 | 3.9 | 11 | SF | 3 | | | G |
| 0129 | KANZ | 09 0949 | 0952 | 1012 | S22 | W49 | 4104 | 03 | 5.6 | 23 | SF | 2 | | | L |
| 0130 | HTPR | 09 1046 | 1110 | 1125 | N04 | W21 | 4113 | 03 | 7.9 | 39 | SF | | C | 1110 | 20 |
| 0131 | 09 11055 | 11078 | 1120 | S18 | W50 | 4104 | 03 | 5.6 | 15 | SF | | | | 33 | .6 |
| | HTPR | 09 1105 | 1107 | 1119 | S15 | W50 | 4104 | 03 | 5.7 | 14 | SF | 2 | C | 1107 | .2 |
| | CATA | 09 1110 | 1115 | 1120 | S21 | W51 | 4104 | 03 | 5.5 | 10 | S | | | 1115 | .9 |
| 0132 | 09 12111 | 1212 | 1218 | S18 | W50 | 4104 | 03 | 5.7 | 7 | SF | | | | 41 | .3 |
| | RAMY | 09 1211 | 1212 | 1220 | S21 | W49 | 4104 | 03 | 5.7 | 9 | SF | 3 | C | | 62 |
| | HTPR | 09 1212 | 1212 | 1215 | S16 | W52 | 4104 | 03 | 5.6 | 3 | SF | | C | 1212 | .3 |
| 0133 | RAMY | 09 1253 | 1256 | 1304 | S03 | W21 | 4110 | 03 | 8.0 | 11 | SF | 3 | C | | 23 |
| 0134 | HTPR | 09 1336 | 1345 | 1400 | N04 | W23 | 4113 | 03 | 7.8 | 24 | SN C | 1.2 | C | 1345 | 60 |
| 0135 | RAMY | 09 1340 | 1345 | 1402 | S03 | W20 | 4110 | 03 | 8.1 | 22 | SN C | 1.2 | 3 | C | 100 |
| 0136 | HTPR | 09 1446 | 1447 | 1450 | S16 | W52 | 4108 | 03 | 5.7 | 4 | SN | | C | 1447 | 50 |
| 0137 | RAMY | 09 1458 | 1504 | 1548 | S03 | W21 | 4110 | 03 | 8.0 | 50 | SN | 3 | C | | 54 |
| 0138 | HTPR | 09 1502 | | 1504D | N04 | W19 | 4113 | 03 | 8.2 | 20 | SF | | C | 1504 | 40 |
| 0139 | HOLL | 09 1612 | 1613 | 1617 | S18 | W51 | 4104 | 03 | 5.8 | 5 | SF | 3 | C | | 26 |

H - ALPHA SOLAR FLARES

27
Mar 83

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA USAF | OMP | Dur | Imp | Obs | Time (UT) | Area Measurement | | | | | | | | | |
|-------|------|-----|------------|----------|----------|-----|-----------|------|-----|-----|-----|-----------|------------------|-----|------|------|-----|------|-------------------------|----------|---------|--|
| | | | | | | | | | | | | | Mo | Day | Opt | Xray | See | Type | (10 ⁻⁶ Disk) | (Sq Deg) | Remarks | |
| 0140 | HOLL | 09 | 1625 | 1626 | 1637 | S19 | W52 | 4104 | 03 | 5.7 | 12 | SF | 3 | C | | | | | 31 | | | |
| 0141 | PALE | 09 | 1732 | 1733 | 1740 | S02 | W23 | 4110 | 03 | 8.0 | 8 | SF | 3 | C | | | | | 29 | | | |
| 0142 | HOLL | 09 | 1821 | 1828 | 1830 | S19 | W53 | 4104 | 03 | 5.7 | 9 | SF | 3 | C | | | | | 22 | | | |
| 0143 | PALE | 09 | 2034 | 2035 | 2041 | S03 | W24 | 4110 | 03 | 8.1 | 7 | SF | 3 | C | | | | | 34 | | | |
| 0144 | LEAR | 10 | 0004* | 0009* | 0048 | S08 | W76 | 4105 | 03 | 4.3 | 44 | SN C 7.5 | | | | | | | 103 | | EFU | |
| | HOLL | 10 | 0004 | 0010 | 0026 | S08 | W76 | 4105 | 03 | 4.3 | 22 | SF | 2 | C | | | | | F | | | |
| | MANI | 10 | 0006 | 0009 | 0056D | S07 | W77 | 4105 | 03 | 4.2 | 50D | SN | 3 | C | | | | | 92 | | UF | |
| | PALE | 10 | 0007 | 0009 | 0024 | S09 | W76 | 4105 | 03 | 4.2 | 19D | SF | 1 | V | | | | | F | | | |
| | PEKG | 10 | 0007 | 0010 | 0016 | S08 | W74 | 4105 | 03 | 4.4 | 17 | SF | 3 | C | | | | | 76 | | E | |
| | YUNN | 10 | 0027E | 0047 | 0112 | S08 | W74 | 4105 | 03 | 4.5 | 450 | 1N C 7.5 | | P | 0010 | | | | 96 | | | |
| | PALE | 10 | 0028 | 0048 | 0118 | S08 | W73 | 4105 | 03 | 4.5 | 50 | SF C 7.5 | 3 | C | | | | | | | F | |
| | PURP | 10 | 0049E | 0050 | 0139 | S09 | W80 | 4105 | 03 | 4.0 | 50D | 1N C 7.5 | | C | 0050 | | | | 148 | | | |
| 0145 | YUNN | 10 | 00584 | 01022 | 0112 | S02 | W28 | 4110 | 03 | 7.9 | 14 | SF | | | | | | | 94 | 1.3 | | |
| | CULG | 10 | 0058 | 0103 | 0111 | S01 | W29 | 4110 | 03 | 7.9 | 13 | SF | | C | | | | | 80 | .9 | | |
| | PURP | 10 | 0059 | 0103 | 0109 | S02 | W27 | 4110 | 03 | 8.0 | 10 | SF | | C | 0103 | | | | 110 | 1.2 | | |
| | PALE | 10 | 0102 | 0102 | 0122 | S03 | W28 | 4110 | 03 | 7.9 | 23 | SN | | C | 0104 | | | | 140 | 1.7 | | |
| 0146 | PURP | 10 | 0158E | 0158 | 0215 | S03 | W30 | 4110 | 03 | 7.8 | 17D | SF | | C | 0158 | | | | 27 | .3 | | |
| 0147 | PURP | 10 | 0244 | 02479 | 0310 | S02 | W30 | 4110 | 03 | 7.9 | 26 | SF | | | | | | | 36 | .4 | | |
| | YUNN | 10 | 0244 | 0247 | 0310 | S03 | W30 | 4110 | 03 | 7.9 | 26 | SF | | C | 0247 | | | | 40 | .5 | | |
| | YUNN | 10 | 0251E | 0256 | 0311 | S01 | W29 | 4110 | 03 | 7.9 | 20D | SF | | P | | | | | 32 | .4 | | |
| 0148 | LEAR | 10 | 02591 | 03012 | 0315 | S21 | W52 | 4104 | 03 | 6.1 | 16 | SN C 1.1 | 3 | C | | | | | 40 | .8 | | |
| | PURP | 10 | 0259 | 0301 | 0317 | S22 | W51 | 4104 | 03 | 6.2 | 18 | SN C 1.1 | | | | | | | 34 | | | |
| | PURP | 10 | 0300 | 0303 | 0312 | S21 | W52 | 4104 | 03 | 6.1 | 12 | SN C 1.1 | | C | 0303 | | | | 54 | .9 | | |
| | YUNN | 10 | 0304E | 0304U | 0315 | S21 | W53 | 4104 | 03 | 6.1 | 11D | SN C 1.1 | | P | 0304 | | | | 32 | .6 | | |
| 0149 | YUNN | 10 | 0439E | 0439 | 0448 | S01 | W31 | 4110 | 03 | 7.9 | 9D | SF | | P | | | | | 32 | .4 | | |
| 0150 | YUNN | 10 | 0455* | 0505* | 0618 | S02 | W37 | 4110 | 03 | 7.4 | 83 | SN | | | | | | | 68 | 1.0 | | |
| | LEAR | 10 | 0455 | 0505 | 0511D | S01 | W35 | 4110 | 03 | 7.6 | 16D | SN | | P | | | | | 48 | .6 | | |
| | CULG | 10 | 0504 | 0512 | 0610 | S04 | W38 | 4110 | 03 | 7.4 | 66 | SF | 3 | C | | | | | 29 | | | |
| | YUNN | 10 | 0507 | 0542 | 0625 | S02 | W39 | 4110 | 03 | 7.3 | 78 | SF | | C | 0542 | | | | 130 | 1.7 | | |
| | YUNN | 10 | 0553 | 0557 | 0608D | S02 | W36 | 4110 | 03 | 7.5 | 15D | SN | | P | | | | | 64 | .8 | | |
| 0151 | CATA | 10 | 0820 | 0835 | 0900 | S33 | W63 | | 03 | 5.3 | 40 | 1 | 1 | C | 0835 | | | | 169 | 3.9 | | |
| 0152 | CATA | 10 | 0820* | 0841* | 1020 | S24 | W55 | 4104 | 03 | 6.1 | 120 | 1N M 1.1 | | | | | | | 280 | 5.6 | FKU | |
| | LEAR | 10 | 0820 | 0850 | 1035 | S26 | W58 | 4104 | 03 | 5.8 | 135 | 2 M 1.1 | 2 | C | 0850 | | | | 478 | 9.3 | | |
| | PEKG | 10 | 0834 | 0909 | 0932D | S26 | W58 | 4104 | 03 | 5.8 | 580 | 1N M 1.1 | 3 | C | | | | | 194 | | F | |
| | WEND | 10 | 0835 | 0841 | 0900D | S24 | W59 | 4104 | 03 | 5.8 | 250 | 1N M 1.1 | | C | 0841 | | | | 168 | 3.6 | F | |
| | ISTA | 10 | 0840 | 0945 | 1047 | S23 | W53 | 4104 | 03 | 6.3 | 132 | 2N | | C | 0920 | | | | 306 | 5.6 | | |
| | ATHN | 10 | 0850 | 0853 | 1015 | S22 | W50 | 4104 | 03 | 6.5 | 65 | 2B | | | | | | | | | KU | |
| | KANZ | 10 | 0944E | 0952 | 1018 | S24 | W56 | 4104 | 03 | 6.1 | 340 | 1N | 2 | | | | | | | | | |
| 0153 | KANZ | 10 | 1059 | 1103 | 1119 | S23 | W54 | 4104 | 03 | 6.3 | 20 | 1F | 2 | | | | | | | | | |
| 0154 | KANZ | 10 | 1119 | 1123 | 1131 | S15 | W70 | 4102 | 03 | 5.2 | 12 | SN | 1 | | | | | | | | | |
| 0155 | RAMY | 10 | 1144 | 1153 | 1233 | S22 | W57 | 4104 | 03 | 6.1 | 49 | 1N | | | | | | | 138 | 4.0 | BEI | |
| | HTPR | 10 | 1144 | 1153 | 1238 | S22 | W57 | 4104 | 03 | 6.1 | 54 | SN | 3 | C | 1200 | | | | 57 | | | |
| | HTPR | 10 | 1154E | 1228 | 1228 | S23 | W57 | 4104 | 03 | 6.1 | 340 | 1N | | C | 220 | | | | 4.0 | | BEI | |
| 0156 | KANZ | 10 | 1147 | 1151 | 1159 | S17 | W77 | 4102 | 03 | 4.6 | 12 | SF | 1 | | | | | | | | | |
| 0157 | KANZ | 10 | 12231 | 12235 | 1241 | S04 | W34 | 4110 | 03 | 8.0 | 18 | SF | 1 | | | | | | 43 | .7 | E | |
| | HTPR | 10 | 1223 | 1223 | 1235 | S04 | W34 | 4110 | 03 | 8.0 | 12 | SF | | | | | | | 60 | .7 | E | |
| | RAMY | 10 | 1224 | 1228 | 1238 | S04 | W34 | 4110 | 03 | 8.0 | 14 | SF | 3 | C | 1228 | | | | 26 | | | |

28
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | Cmp Region | Dur Mo Day | Imp (Min) | Obs | Time (UT) | Area Measurement | | |
|----------|------|--------------|-------------|-------------|-------|----------------------|---------------|---------------|--------------|------|--------------|------------------|-------------------------------------|------------------|
| | | | | | | | | | | | | Time | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) |
| | | | | | | | | | | | | | | Remarks |
| 0158 | KANZ | 10 | 12433 | 1247* | 1312 | S22 | W57 | 4104 | 03 | 6.1 | 29 | SF | | 31 |
| | | 10 | 1243 | 1247 | 1303 | S23 | W54 | 4104 | 03 | 6.4 | 20 | SF | 1 | |
| | RAMY | 10 | 1246 | 1258 | 1322 | S21 | W60 | 4104 | 03 | 5.9 | 36 | SF | 3 | C |
| 0159 | HTPR | 10 | 13332 | 13343 | 1342 | S08 | W83 | 4105 | 03 | 4.3 | 9 | SN | | 26 |
| | | 10 | 1333 | 1337 | 1340 | S08 | W85 | 4105 | 03 | 4.2 | 7 | SF | C | 1337 |
| | KANZ | 10 | 1334 | 1334 | 1346 | S09 | W89 | 4105 | 03 | 3.9 | 12 | SB | 1 | |
| | RAMY | 10 | 1335 | 1337 | 1340 | S06 | W74 | 4105 | 03 | 5.0 | 5 | SF | 3 | C |
| 0160 | KANZ | 10 | 15101 | 15143 | 1524 | S08 | W87 | 4105 | 03 | 4.1 | 14 | SN C 1.0 | | 30 |
| | | 10 | 1510 | 1514 | 1522 | S07 | W89 | 4105 | 03 | 4.0 | 12 | SN C 1.0 | 1 | |
| | WEND | 10 | 1511 | 1515 | 1521 | S11 | W89 | 4105 | 03 | 3.9 | 10 | SN C 1.0 | C | 1515 |
| | HTPR | 10 | 1511 | 1515 | 1526 | S08 | W86 | 4105 | 03 | 4.2 | 15 | SF C 1.0 | C | 1515 |
| | HOLL | 10 | 1511 | 1517 | 1528 | S07 | W85 | 4105 | 03 | 4.3 | 17 | SF C 1.0 | 3 | C |
| 0161 | HOLL | 11 | 0018 | 0026 | 0039 | S01 | W42 | 4110 | 03 | 7.9 | 21 | SF | 3 | C |
| 0162 | CULG | 11 | 0112* | 0146* | 0234 | S04 | W48 | 4110 | 03 | 7.5 | 82 | SF C 1.3 | | 124 |
| | | 11 | 0112 | 0207 | 0246 | S05 | W48 | 4110 | 03 | 7.4 | 94 | IN | C | 0207 |
| | LEAR | 11 | 0120 | 0146 | 0218 | S03 | W45 | 4110 | 03 | 7.7 | 58 | SF C 1.3 | 3 | C |
| | PALE | 11 | 0121E | 0148U | 0157D | S05 | W45 | 4110 | 03 | 7.7 | 36D | SF C 1.3 | 3 | C |
| | YUNN | 11 | 0128 | 0152 | 0230 | S02 | W50 | 4110 | 03 | 7.3 | 62 | SN C 1.3 | | 35 |
| | VORO | 11 | 0134 | 0150 | 0300D | S02 | W50 | 4110 | 03 | 7.3 | 86D | 1F C 1.3 | C | 0150 |
| | PEKG | 11 | 0142 | 0159 | 0240 | S03 | W49 | 4110 | 03 | 7.4 | 58 | SN | P | 0159 |
| | PURP | 11 | 0155 | 0228 | 0251D | S07 | W51 | 4110 | 03 | 7.2 | 56D | SF | C | 0228 |
| 0163 | KANZ | 11 | 0937 | 0937 | 0945 | S23 | W70 | 4104 | 03 | 6.0 | 8 | SF | 1 | |
| 0164 | KANZ | 11 | 1017 | 1017 | 1032 | S16 | W80 | 4102 | 03 | 5.4 | 15 | SF | 1 | |
| 0165 | KANZ | 11 | 1252 | 1258 | 1310 | S16 | W80 | 4102 | 03 | 5.5 | 18 | SF | 1 | |
| | | 11 | 1659 | | 1705 | No Flare Patrol | | | | | | | | |
| | | 11 | 1822 | | 1826 | No Flare Patrol | | | | | | | | |
| | | 11 | 1921 | | 1927 | No Flare Patrol | | | | | | | | |
| | | 11 | 2013 | | 2018 | No Flare Patrol | | | | | | | | |
| 0166 | YUNN | 12 | 0031E | 0045 | 00450 | S09 | E01 | 4114 | 03 | 12.1 | 140 | SN | P | 32 |
| 0167 | ABST | 12 | 0650 | 0657 | 0710 | S09 | W04 | 4114 | 03 | 12.0 | 20 | SF | C | 0657 |
| | | 12 | 1901 | | 1902 | No Flare Patrol | | | | | | | | |
| | | 12 | 1925 | | 1941 | No Flare Patrol | | | | | | | | |
| | | 13 | 2153 | | 2158 | No Flare Patrol | | | | | | | | |
| 0168 | PEKG | 14 | 0546 | 0547 | 0548 | S06 | W88 | 4110 | 03 | 7.6 | 2 | SF | P | 0547 |
| 0169 | YUNN | 14 | 0617 | 0623 | 0700 | S07 | E89 | 4116 | 03 | 20.9 | 43 | SN | C | 16 |
| 0170 | PEKG | 14 | 0624 | 0628 | 0642 | S06 | W86 | 4110 | 03 | 7.7 | 18 | SF | P | 0628 |
| 0171 | YUNN | 14 | 0651 | 0657 | 0658 | S13 | E60 | 4115 | 03 | 18.8 | 7 | SN | C | 32 |
| | | 14 | 1022 | | 1034 | No Flare Patrol | | | | | | | | |
| 0172 | KHAR | 14 | 1150 | 1200 | 1200 | S11 | E86 | 4118 | 03 | 21.0 | 10 | 1F | | 56 |
| | | 14 | 1148E | | 12050 | S13 | E83 | 4118 | 03 | 20.7 | 17D | SF | P | 1153 |
| | CATA | 14 | 1150 | 1200 | 1200 | S09 | E90 | 4118 | 03 | 21.2 | 10 | 1 | P | 1200 |
| | | 14 | 1206 | | 1229 | No Flare Patrol | | | | | | | | |
| | | 14 | 1306 | | 1339 | No Flare Patrol | | | | | | | | |
| | | 14 | 1410 | | 1425 | No Flare Patrol | | | | | | | | |
| | | 14 | 1536 | | 1542 | No Flare Patrol | | | | | | | | |
| 0173 | HOLL | 14 | 1639 | 1705 | 1708 | S14 | E56 | 4115 | 03 | 18.9 | 29 | SF | 3 | C |
| 0174 | HOLL | 14 | 1651 | 1654 | 1656 | S05 | E84 | 4116 | 03 | 21.0 | 5 | SF | 3 | C |

H - ALPHA SOLAR FLARES

29
Mar 83

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | NOAA/USAF | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | |
|-------|------|-----|------------|----------|----------|-----------------|-----|--------|--------|-----------|-----|-----|-----------|------------------|----------------------------------|---------------|---------|
| | | | | | | Lat | CMD | Region | OMP Mo | Day | | | | Time | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks |
| 0175 | HOLL | 14 | 1713 | 1721 | 1732 | S07 | E82 | 4116 | 03 | 20.8 | 19 | SF | 3 | C | 25 | | F |
| 0176 | HOLL | 14 | 1733 | 1739 | 1744 | S14 | E56 | 4115 | 03 | 19.0 | 11 | SF | 3 | C | 47 | | |
| 0177 | HOLL | 14 | 1757 | 1818 | 1819 | S05 | E83 | 4116 | 03 | 20.9 | 22 | SF | 3 | C | 25 | | |
| 0178 | HOLL | 14 | 1832 | 1833 | 1841 | S08 | E84 | 4116 | 03 | 21.1 | 9 | SF | 3 | C | 16 | | |
| 0179 | HOLL | 14 | 1904 | 1919 | 1938 | S09 | E72 | 4116 | 03 | 20.2 | 34 | SF | 3 | C | 45 | | |
| 0180 | HOLL | 14 | 1907 | 1909 | 1923 | S14 | E54 | 4115 | 03 | 18.9 | 16 | SF | 3 | C | 21 | | |
| 0181 | HOLL | 14 | 2137 | 2142 | 2149 | S07 | E78 | 4116 | 03 | 20.7 | 12 | SF | 3 | C | 13 | | |
| | | 14 | 2208 | | 2232 | No Flare Patrol | | | | | | | | | | | |
| 0182 | HOLL | 14 | 2323 | 2329 | 2345 | S08 | E77 | 4116 | 03 | 20.7 | 22 | SF | 3 | C | 19 | | |
| 0183 | YUNN | 15 | 0224E | 0229 | 0241D | N19 | W03 | 4117 | 03 | 14.9 | 17D | SN | P | | 80 | .9 | |
| 0184 | YUNN | 15 | 0313 | 0315 | 0326 | N20 | W04 | 4117 | 03 | 14.8 | 13 | SN | C | | 96 | 1.1 | |
| | | 15 | 0353 | | 0359 | No Flare Patrol | | | | | | | | | | | |
| 0185 | | 15 | 04092 | 04166 | 0444 | S18 | E58 | 4115 | 03 | 19.6 | 35 | SF | C | 1.0 | 107 | 2.2 | EGS |
| | LEAR | 15 | 0409E | 0409U | 0447 | S19 | E58 | 4115 | 03 | 19.6 | 38D | SF | C | 1.0 | 89 | | FS |
| | YUNN | 15 | 0409 | 0422 | 0441 | S18 | E58 | 4115 | 03 | 19.6 | 32 | SN | C | 1.0 | 64 | 1.2 | |
| | PURP | 15 | 0411 | 0416 | 0445 | S18 | E59 | 4115 | 03 | 19.7 | 34 | 1F | C | 1.0 | 168 | 3.3 | EG |
| 0186 | YUNN | 15 | 0650 | 0653 | 0659 | S13 | E49 | 4115 | 03 | 19.0 | 9 | SN | C | | 48 | .8 | |
| 0187 | ABST | 15 | 0833E | 0841 | 0853D | S08 | E74 | 4116 | 03 | 20.9 | 20D | 1F | P | 0841 | 87 | | D |
| | | 15 | 1232 | | 1237 | No Flare Patrol | | | | | | | | | | | |
| | | 15 | 1244 | | 1248 | No Flare Patrol | | | | | | | | | | | |
| | | 15 | 1312 | | 1351 | No Flare Patrol | | | | | | | | | | | |
| | | 15 | 1417 | | 1418 | No Flare Patrol | | | | | | | | | | | |
| | | 15 | 1514 | | 1524 | No Flare Patrol | | | | | | | | | | | |
| 0188 | RAMY | 15 | 1539 | 1545 | 1554 | S15 | E44 | 4115 | 03 | 19.0 | 15 | SF | 3 | C | 56 | | |
| 0189 | HOLL | 15 | 1814 | 1815 | 1827 | N19 | W11 | 4117 | 03 | 14.9 | 13 | SN | 3 | C | 58 | | F |
| 0190 | | 15 | 18531 | 1856 | 1942 | S08 | E71 | 4116 | 03 | 21.1 | 49 | SN | C | 2.0 | 66 | | F |
| | HOLL | 15 | 1853 | 1856 | 1951 | S08 | E72 | 4116 | 03 | 21.2 | 58 | SN | C | 3.0 | 83 | | |
| | RAMY | 15 | 1854 | 1856 | 1932 | S09 | E70 | 4116 | 03 | 21.0 | 38 | SN | C | 3.0 | 49 | | |
| | | 15 | 2039 | | 2045 | No Flare Patrol | | | | | | | | | | | |
| | | 15 | 2136 | | 2324 | No Flare Patrol | | | | | | | | | | | |
| 0191 | LEAR | 16 | 0034 | 0036 | 0042 | S14 | E41 | 4115 | 03 | 19.1 | 8 | SF | 3 | C | 19 | | |
| 0192 | LEAR | 16 | 0110 | 0112 | 0121 | S07 | E63 | 4116 | 03 | 20.8 | 11 | SF | C | 1.1 | 39 | | |
| 0193 | | 16 | 0111 | 0113 | 0126 | S12 | E39 | 4115 | 03 | 19.0 | 15 | SN | | | 37 | .5 | F |
| | LEAR | 16 | 0111 | 0113 | 0127 | S14 | E39 | 4115 | 03 | 19.0 | 16 | SF | | | 34 | | |
| | CULG | 16 | 0112E | 0112U | 0126 | S10 | E39 | 4115 | 03 | 19.0 | 14D | SN | P | 0112 | 40 | .5 | |
| 0194 | | 15 | 01353 | 01381 | 0144 | S06 | E68 | 4116 | 03 | 21.1 | 9 | SF | | | 39 | 1.3 | |
| | CULG | 16 | 0135 | 0139 | 0142 | S03 | E68 | 4116 | 03 | 21.1 | 7 | SF | | | 50 | 1.3 | |
| | LEAR | 16 | 0136 | 0138 | 0146 | S08 | E69 | 4116 | 03 | 21.2 | 10 | SF | 3 | C | 44 | | |
| | PALE | 16 | 0138 | 0139 | 0143 | S07 | E66 | 4116 | 03 | 21.0 | 5 | SF | 2 | C | 14 | | |
| 0195 | | 16 | 03141 | 03177 | 0330 | S13 | E36 | 4115 | 03 | 18.8 | 16 | SF | C | 1.4 | 54 | .7 | E |
| | PEKG | 16 | 0314 | 0317 | 0330 | S13 | E36 | 4115 | 03 | 18.8 | 16 | SF | C | 1.4 | 59 | .7 | |
| | PALE | 16 | 0315 | 0324 | 0330 | S13 | E36 | 4115 | 03 | 18.8 | 15 | SF | C | 1.4 | 49 | | |
| 0196 | | 16 | 03382 | 03419 | 0400 | S14 | E36 | 4115 | 03 | 18.9 | 22 | SN | C | 1.5 | 80 | 1.2 | EF |
| | LEAR | 16 | 0338 | 0341 | 0359 | S14 | E37 | 4115 | 03 | 18.9 | 21 | SN | C | 1.5 | 67 | | F |
| | PEKG | 16 | 0340 | 0350 | 0401 | S14 | E36 | 4115 | 03 | 18.9 | 21 | SF | C | 1.5 | 92 | 1.2 | E |

30
Mar 83

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF | | | Dur (Min) | Imp | Obs | Area Measurement | | | |
|----------|------|------|---------------|-------------|--------------|--------------|---------------|--------|----------|--------------|------|------|------------------|-------------------------------------|------------------|---------|
| | | | | | | | CMD | Region | Mo Day | | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks |
| 0197 | 16 | 0426 | 04314 | 0447 | S14 E35 4115 | 03 | 19.8 | 21 | SN | | | | 30 | .4 | E | |
| | PEKG | 16 | 0426 | 0431 | 0440 | S13 E35 4115 | 03 | 18.8 | 14 | SF | C | 0431 | 34 | .4 | E | |
| | PURP | 16 | 0435E | 0435 | 0454 | S15 E35.4115 | 03 | 18.8 | 19D | SN | P | 0435 | 27 | .3 | | |
| 0198 | PEKG | 16 | 0531 | 0534 | 0556 | S14 E35 4115 | 03 | 18.9 | 25 | SF | C | 0534 | 29 | .4 | E | |
| 0199 | ABST | 16 | 0656 | 0704 | 0710 | S14 E35 4115 | 03 | 18.9 | 14 | SN | C | 0704 | 87 | .9 | D | |
| 0200 | ABST | 16 | 0710 | 0713 | 0725 | N18 W22 4117 | 03 | 14.6 | 15 | SF | C | 0713 | 87 | 1.1 | D | |
| 0201 | ABST | 16 | 0715 | 0718 | 0728 | S07 E58 4116 | 03 | 20.6 | 13 | 1F | C | 0718 | 131 | 2.6 | EK | |
| 0202 | PEKG | 16 | 0737 | 0741 | 0749 | S13 E34 4115 | 03 | 18.9 | 12 | SF | C | 0741 | 17 | .2 | D | |
| 0203 | PEKG | 16 | 0757 | 0802 | 0810 | S13 E34 4115 | 03 | 18.9 | 13 | SF | C | 0802 | 25 | .3 | E | |
| 0204 | | 16 | 0826E | | 0900 | S12 E33 4115 | 03 | 18.8 | 34D | SF | | | 20 | .2 | E | |
| | HTPR | 16 | 0826E | | 0900 | S12 E33 4115 | 03 | 18.8 | 34D | SF | C | 0835 | 20 | .2 | | |
| | KHAR | 16 | 0910E | | 0920D | S13 E33 4115 | 03 | 18.9 | 10D | SF | V | 0910 | | | E | |
| 0205 | HTPR | 16 | 1109E | | 11130 | S12 E32 4115 | 03 | 18.9 | 4D | SF | C | 1111 | 20 | .2 | | |
| 0206 | | 16 | 1745 | 1752 | 1806 | S08 E51 4116 | 03 | 20.6 | 21 | SF | | | 33 | | F | |
| | PALE | 16 | 1745 | 1752 | 1800 | S08 E51 4116 | 03 | 20.6 | 15 | SF | 3 | C | 40 | | F | |
| | HOLL | 16 | 1745 | 1752 | 1812 | S09 E51 4116 | 03 | 20.6 | 27 | SF | 3 | C | 26 | | | |
| 0207 | PALE | 16 | 1756 | 1800 | 1803 | S13 E29 4115 | 03 | 18.9 | 7 | SF | 3 | C | 22 | | | |
| 0208 | HOLL | 16 | 1815 | 1816 | 1822 | S09 E52 4116 | 03 | 20.7 | 7 | SF | 3 | C | 25 | | | |
| 0209 | HOLL | 16 | 1846 | 1850 | 1858 | S07 E56 4116 | 03 | 21.0 | 12 | SF C 1.0 | 3 | C | 24 | | | |
| 0210 | | 16 | 19241 | 19262 | 1932 | S09 E52 4116 | 03 | 20.7 | 8 | SF | | | 42 | | | |
| | RAMY | 16 | 1924 | 1928 | 1936 | S10 E55 4116 | 03 | 20.9 | 12 | SF | 3 | C | 56 | | | |
| | PALE | 16 | 1925 | 1926 | 1928 | S08 E49 4116 | 03 | 20.5 | 3 | SF | 3 | C | 29 | | | |
| 0211 | | 16 | 21032 | 2106* | 2343 | S08 E51 4116 | 03 | 20.7 | 160 | SF C 7.3 | | | 87 | | FHK | |
| | PALE | 16 | 2103 | 2120 | 2137D | S08 E47 4116 | 03 | 20.4 | 34D | SF | 3 | C | 108 | | | |
| | HOLL | 16 | 2105 | 2106 | 2346D | S07 E53 4116 | 03 | 20.8 | 161D | SF | 3 | C | 26 | | K | |
| | HOLL | 16 | 2105 | 2209 | 2346D | S07 E53 4116 | 03 | 20.8 | 161D | IN C 7.3 | 3 | C | 186 | | FHK | |
| | LEAR | 16 | 2334E | 2337 | 2343 | S10 E52 4116 | 03 | 20.9 | 9D | SF | 3 | C | 27 | | | |
| 0212 | HOLL | 17 | 0015 | 0015 | 0052D | S08 E48 4116 | 03 | 20.6 | 3D | SF C 3.2 | 3 | C | 27 | | F | |
| 0213 | PURP | 17 | 0031 | 0036 | 0110 | S09 E52 4116 | 03 | 20.9 | 39 | IN | C | 0036 | 295 | 4.9 | E | |
| 0214 | PURP | 17 | 0132 | 0158 | 0213 | S09 E48 4116 | 03 | 20.7 | 41 | 1F | C | 0158 | 134 | 2.1 | | |
| 0215 | | 17 | 02231 | 0225* | 0401 | S08 E50 4116 | 03 | 20.8 | 98 | SB M 1.1 | | | 90 | 2.0 | DEK | |
| | PALE | 17 | 0223 | 0226 | 0252 | S06 E49 4116 | 03 | 20.8 | 29 | SN M 1.1 | 3 | C | 73 | | | |
| | PURP | 17 | 0224 | 0225 | 0513 | S09 E50 4116 | 03 | 20.8 | 169 | SB M 1.1 | C | 0225 | 94 | 1.5 | DK | |
| | LEAR | 17 | 0224 | 0227 | 0246 | S07 E52 4116 | 03 | 21.0 | 22 | SB M 1.1 | 3 | C | 45 | | | |
| | PURP | 17 | 0224 | 0242 | 0513 | S09 E51 4116 | 03 | 20.9 | 169 | IN | C | 0242 | 148 | 2.4 | E | |
| 0216 | LEAR | 17 | 0441 | 0445 | 0556 | S08 E46 4116 | 03 | 20.6 | 75 | SF C 4.0 | 3 | C | 43 | | | |
| 0217 | | 17 | 06565 | 0701 | 0705 | S14 E25 4115 | 03 | 19.2 | 9 | SN | | | 58 | .9 | D | |
| | ABST | 17 | 0656 | 0701 | 0706 | S14 E25 4115 | 03 | 19.2 | 10 | SN | C | 0701 | 87 | .9 | D | |
| | LEAR | 17 | 0701 | 0701 | 0704 | S14 E25 4115 | 03 | 19.2 | 3 | SF | 3 | C | 30 | | | |
| 0218 | | 17 | 0714* | 0723* | 0748 | S06 E46 4116 | 03 | 20.7 | 34 | SN C 2.7 | | | 95 | 1.4 | EF | |
| | MITK | 17 | 0714 | 0731 | 0746D | S07 E47 4116 | 03 | 20.8 | 32D | IN | C | 0731 | 270 | 4.0 | E | |
| | ABST | 17 | 0721 | 0724 | 0755 | S08 E45 4116 | 03 | 20.7 | 34 | SN | C | 0724 | 131 | 1.9 | E | |
| | PURP | 17 | 0723E | 0723 | 0758 | S09 E45 4116 | 03 | 20.7 | 35D | SF C 2.7 | C | 0723 | 67 | 1.0 | | |
| | LEAR | 17 | 0723 | 0724 | 0753 | S07 E46 4116 | 03 | 20.7 | 30 | SN C 2.7 | 3 | C | 99 | | F | |
| | CULG | 17 | 0723 | 0725 | 0738 | S02 E46 4116 | 03 | 20.7 | 15 | SN C 2.7 | C | 0725 | 40 | .6 | | |
| | BUCA | 17 | 0724E | 0746 | S07 E44 4116 | 03 | 20.6 | 22D | SN C 2.7 | C | 0724 | 107 | 1.5 | E | | |
| | HTPR | 17 | 0724 | 0725 | 0748 | S06 E43 4116 | 03 | 20.5 | 24 | SN C 2.7 | C | 0726 | 40 | .5 | | |
| | CATA | 17 | 0730 | 0735 | 0745 | S08 E45 4116 | 03 | 20.7 | 15 | S | 2 | P | 0735 | 84 | 1.2 | |
| | HTPR | 17 | 0732 | 0733 | 0737 | S05 E50 4116 | 03 | 21.0 | 5 | SF | C | 0733 | 20 | .3 | | |

H - ALPHA SOLAR FIRES

31
Mar 83

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF Region | OMP Mo Day | Dur (Min) | Imp Opt | Xray See | Obs Type | Area Measurement | | | |
|-------|------|-----|------------|----------|----------|-----|------|------------------|------------|-----------|----------|----------|----------|------------------|----------------------------------|---------------|---------|
| | | | | | | | | | | | | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks |
| 0219 | HTPR | 17 | 0723E | | 0737 | S12 | E24 | 4115 | 03 19.1 | 140 | SF | | C | 0725 | 40 | .4 | E |
| 0220 | KANZ | 17 | 0824 | 0824 | 0832 | S06 | E49 | 4116 | 03 21.0 | 8 | SF | | 3 | | | | |
| 0221 | KANZ | 17 | 0824 | 0828 | 0832 | S14 | E24 | 4115 | 03 19.2 | 8 | SF | | 3 | | | | |
| 0222 | | 17 | 08596 | 09048 | 0938 | S07 | E47 | 4116 | 03 20.9 | 39 | 1B M 2.2 | | | | 188 | 2.8 | EF |
| | KANZ | 17 | 0859 | 0907 | 0943 | S07 | E45 | 4116 | 03 20.7 | 44 | SB | | 3 | | | | |
| | LEAR | 17 | 0900 | 0904 | 0940 | S08 | E48 | 4116 | 03 21.0 | 40 | 1B M 2.2 | 3 | C | 0905 | 223 | F | |
| | HTPR | 17 | 0901 | 0905 | 0930 | S09 | E47 | 4116 | 03 20.9 | 29 | SB M 2.2 | | | | 80 | 1.2 | E |
| | KAND | 17 | 0901 | 0909 | 0952 | S07 | E47 | 4116 | 03 20.9 | 51 | 1B M 2.2 | | C | | 187 | 2.8 | E |
| | MANI | 17 | 0904E | 0905U | 0908D | S03 | E50 | 4116 | 03 21.1 | 40 | SB M 2.2 | 1 | V | | 80 | 1.3 | F |
| | KHAR | 17 | 0905E | 0945D | 0908 | S08 | E45 | 4116 | 03 20.8 | 40D | IN M 2.2 | | P | 0907 | 250 | 3.8 | E |
| | PEKG | 17 | 0905 | 0912 | 0946 | S07 | E47 | 4116 | 03 20.9 | 41 | IN M 2.2 | | C | 0912 | 160 | 2.4 | F |
| | CATA | 17 | 0907E | 0907 | 0915 | S08 | E48 | 4116 | 03 21.0 | 80 | 2 M 2.2 | 2 | P | 0907 | 337 | 5.2 | |
| 0223 | HTPR | 17 | 0943 | 1011 | 1026 | S06 | E41 | 4116 | 03 20.5 | 43 | SF | | C | 1011 | 30 | .4 | E |
| 0224 | | 17 | 10341 | 10362 | 1048 | S08 | E46 | 4116 | 03 20.9 | 14 | SN | | | | 26 | .4 | D |
| | KAND | 17 | 1034 | 1036 | 1040 | S07 | E49 | 4116 | 03 21.1 | 6 | SN | | C | | 21 | .3 | D |
| | KAND | 17 | 1035 | 1038 | 1055 | S08 | E42 | 4116 | 03 20.6 | 20 | SN | | C | | 31 | .4 | D |
| 0225 | | 17 | 1057* | 1100* | 1118 | S07 | E44 | 4116 | 03 20.7 | 21 | SN | | | | 70 | 1.0 | EHL |
| | KHAR | 17 | 1056E | 1100 | 1114D | S07 | E46 | 4116 | 03 20.9 | 180 | SN | | P | 1106 | 130 | 1.9 | EH |
| | KANZ | 17 | 1057 | 1102 | 1113 | S06 | E48 | 4116 | 03 21.0 | 16 | SN | 3 | | | | | |
| | HTPR | 17 | 1057 | 1105 | 1118 | S10 | E46 | 4116 | 03 20.9 | 21 | SB | | C | 1105 | 100 | 1.4 | E |
| | KAND | 17 | 1100 | 1104 | 1110 | S06 | E46 | 4116 | 03 20.9 | 10 | SB | | C | | 42 | .6 | E |
| | HTPR | 17 | 1102 | 1105 | 1119 | S06 | E38 | 4116 | 03 20.3 | 17 | SN | | C | 1106 | 10 | .1 | L |
| | KANZ | 17 | 1109 | 1121 | 1133 | S09 | E40 | 4116 | 03 20.5 | 24 | SN | 3 | | | | | |
| 0226 | | 17 | 1128* | 1143* | 1212 | S08 | E41 | 4116 | 03 20.5 | 44 | SF | | | | 45 | .4 | E |
| | HTPR | 17 | 1128 | 1143 | 1157 | S06 | E40 | 4116 | 03 20.5 | 29 | SF | | C | 1143 | 30 | .4 | E |
| | KANZ | 17 | 1141 | 1149 | 1212 | S08 | E41 | 4116 | 03 20.5 | 31 | SF | 3 | | | | | |
| | RAMY | 17 | 1151E | 1151U | 1214 | S08 | E43 | 4116 | 03 20.7 | 230 | SF | 3 | C | | 85 | | |
| | HTPR | 17 | 1207 | 1209 | 1225 | S09 | E41 | 4116 | 03 20.6 | 18 | SF | | C | 1209 | 20 | .3 | |
| 0227 | | 17 | 1223* | 12333 | 1242 | S05 | E44 | 4116 | 03 20.8 | 19 | SN | | | | 30 | .4 | DE |
| | HTPR | 17 | 1223 | 1233 | 1245 | S06 | E39 | 4116 | 03 20.4 | 22 | SN | | C | 1233 | 40 | .5 | E |
| | KANZ | 17 | 1232 | 1236 | 1240 | S05 | E47 | 4116 | 03 21.0 | 8 | SN | 3 | | | | | |
| | HTPR | 17 | 1235 | 1236 | 1240 | S05 | E47 | 4116 | 03 21.0 | 5 | SF | | C | 1236 | 20 | .3 | |
| 0228 | | 17 | 1333* | 1337* | 1416 | S08 | E43 | 4116 | 03 20.8 | 43 | SN | | | | 79 | 1.4 | EL |
| | KANZ | 17 | 1333 | 1337 | 1405 | S07 | E45 | 4116 | 03 20.9 | 32 | SB | 3 | | | | | |
| | HTPR | 17 | 1334 | 1338 | 1355 | S09 | E45 | 4116 | 03 20.9 | 21 | SB | | C | 1338 | 120 | 1.7 | E |
| | RAMY | 17 | 1359 | 1401 | 1416 | S08 | E43 | 4116 | 03 20.8 | 17 | SF | 3 | C | | 36 | | |
| | HTPR | 17 | 1400 | 1435 | 1450 | S09 | E40 | 4116 | 03 20.6 | 50 | SN | | C | 1435 | 80 | 1.0 | E |
| 0229 | | 17 | 14581 | 14591 | 1509 | S07 | E39 | 4116 | 03 20.5 | 11 | SN C 2.6 | | | | 76 | .9 | EF |
| | HOLL | 17 | 1458 | 1459 | 1512 | S07 | E38 | 4116 | 03 20.5 | 14 | SN C 2.6 | 3 | C | | 87 | | |
| | KANZ | 17 | 1459 | 1459 | 1503D | S07 | E41 | 4116 | 03 20.7 | 40 | SN C 2.6 | 3 | | | | | |
| | RAMY | 17 | 1459 | 1500 | 1508 | S07 | E40 | 4116 | 03 20.6 | 9 | SN C 2.6 | 3 | C | | 81 | | |
| | HTPR | 17 | 1459 | 1500 | 1508 | S06 | E38 | 4116 | 03 20.5 | 9 | SB C 2.6 | | C | 1500 | 60 | .9 | E |
| 0230 | | 17 | 19398 | 19496 | 2002 | S06 | E42 | 4116 | 03 21.0 | 23 | SN C 1.0 | | | | 52 | | |
| | RAMY | 17 | 1939 | 1955 | 2000 | S06 | E42 | 4116 | 03 21.0 | 21 | SN C 1.0 | 3 | C | | 56 | | |
| | HOLL | 17 | 1947 | 1949 | 2003 | S06 | E43 | 4116 | 03 21.0 | 16 | SN C 1.0 | 3 | C | | 49 | | |
| 0231 | | 17 | 20111 | 20134 | 2103 | S08 | E42 | 4116 | 03 21.0 | 52 | 1B M 5.2 | | | | 377 | | KUZ |
| | HOLL | 17 | 2011 | 2013 | 2101 | S08 | E42 | 4116 | 03 21.0 | 50 | 1B M 5.2 | 3 | C | | 358 | | UK |
| | HOLL | 17 | 2011 | 2017 | 2101 | S08 | E42 | 4116 | 03 21.0 | 50 | 1B M 5.2 | 3 | C | | 434 | | K |
| | RAMY | 17 | 2012 | 2014 | 2106 | S07 | E42 | 4116 | 03 21.0 | 54 | 1B M 5.2 | 3 | C | | 340 | | Z |
| 0232 | CULG | 17 | 2157 | 2159 | 2205 | S13 | E14 | 4115 | 03 19.0 | 8 | SN | | C | 2159 | 50 | .5 | |
| 0233 | | 17 | 2308 | 2313 | 2320 | S14 | E14 | 4115 | 03 19.0 | 12 | SN | | | | 52 | .7 | |
| | CULG | 17 | 2308 | 2313 | 2318 | S13 | E14 | 4115 | 03 19.0 | 10 | SN | | C | 2313 | 70 | .7 | |
| | LEAR | 17 | 2315E | 2322 | S14 | E14 | 4115 | 03 19.0 | 70 | SF | 2 | C | | 35 | | | |

II - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/ USAF | | | | | | Dur (Min) | Imp | Area Measurement | | | | | | |
|----------|------|--------------|-------------|-------------|---------------|-----|--------|------|------|------|--------------|------|------------------|-------------------------------------|------------------|---------|-----|-----|---|
| | | | | | Lat | CMD | Region | No | Day | Obs | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | | | |
| 0234 | 17 | 23237 | 23284 | 2344 | S06 | E39 | 4116 | 03 | 20.9 | 21 | SN C | 6.1 | | 68 | 1.5 | H | | | |
| | CULG | 17 | 2323 | 2328 | S05 | E39 | 4116 | 03 | 20.9 | 23 | SN C | 6.1 | C | 2328 | 110 | 1.5 | H | | |
| | LEAR | 17 | 2330 | 2332 | S08 | E39 | 4116 | 03 | 20.9 | 12 | SN C | 6.1 | 3 | C | 27 | | H | | |
| 0235 | 18 | 0038* | 0051* | 0138 | S13 | E12 | 4115 | 03 | 18.9 | 60 | SB C | 5.4 | | 174 | 2.0 | EFJK | | | |
| | PEKG | 18 | 0038 | 0052 | 0135 | S13 | E11 | 4115 | 03 | 18.8 | 57 | SB C | 5.4 | C | 0052 | 113 | 1.2 | FK | |
| | PEKG | 18 | 0038 | 0102 | 0135 | S13 | E11 | 4115 | 03 | 18.8 | 57 | SB C | 5.4 | C | 0102 | 160 | 1.7 | F | |
| | HOLL | 18 | 0048E | 0049U | 0105D | S10 | E11 | 4115 | 03 | 18.8 | 17D | SN C | 5.4 | 2 | C | 75 | | F | |
| | CULG | 18 | 0048 | 0104U | 0104D | S12 | E12 | 4115 | 03 | 18.9 | 160 | 1B C | 5.4 | P | 0104 | 240 | 2.5 | | |
| | MITK | 18 | 0049 | 0101 | 0138 | S13 | E12 | 4115 | 03 | 18.9 | 49 | IN C | 5.4 | C | 0101 | 220 | 2.3 | E | |
| | LFAR | 18 | 0050 | 0051 | 0158 | S15 | E13 | 4115 | 03 | 19.0 | 68 | SN C | 5.4 | 3 | C | 177 | | F | |
| | VORO | 18 | 0050 | 0059 | 0120 | S12 | E12 | 4115 | 03 | 18.9 | 30 | IN C | 5.4 | C | 0059 | 242 | 2.5 | EJ | |
| 0236 | PURP | 18 | 0053E | 0107 | 0140 | S15 | E14 | 4115 | 03 | 19.1 | 47D | SB C | 5.4 | C | 0107 | 161 | 1.7 | E | |
| | 18 | 01533 | 01566 | 0219 | S07 | E37 | 4116 | 03 | 20.8 | 26 | SN M | 1.1 | | 148 | 2.1 | EFHJ | | | |
| | CULG | 18 | 0153 | 0159 | 0214 | S05 | E39 | 4116 | 03 | 21.0 | 21 | SN M | 1.1 | C | 0159 | 110 | 1.4 | | |
| | LEAR | 18 | 0154 | 0156 | 0224 | S08 | E37 | 4116 | 03 | 20.8 | 30 | SB M | 1.1 | 3 | C | 119 | | H | |
| | PALE | 18 | 0154 | 0157 | 0223 | S08 | E37 | 4116 | 03 | 20.8 | 29 | SN M | 1.1 | 3 | C | 93 | | F | |
| | PURP | 18 | 0154 | 0157 | 0237 | S09 | E37 | 4116 | 03 | 20.8 | 43 | SN | | C | 0157 | 154 | 2.0 | | |
| | VORO | 18 | 0154 | 0202 | 0212 | S09 | E32 | 4116 | 03 | 20.5 | 18 | 1F | | C | 0202 | 188 | 2.2 | EHJ | |
| | YUNN | 18 | 0155E | 0157 | 0211 | S07 | E39 | 4116 | 03 | 21.0 | 160 | 1N | | P | 189 | 2.5 | F | | |
| 0237 | PEKG | 18 | 0156 | 0202 | 0212 | S07 | E37 | 4116 | 03 | 20.8 | 16 | 1N | | C | 0202 | 185 | 2.4 | F | |
| | 18 | 04382 | 04414 | 0505 | S07 | E36 | 4116 | 03 | 20.9 | 27 | IN M | 1.7 | | 179 | 2.4 | EF | | | |
| | CULG | 18 | 0438 | 0443 | 0450 | S06 | E40 | 4116 | 03 | 21.2 | 12 | IN M | 1.7 | C | 0443 | 180 | 2.4 | | |
| | MITK | 18 | 0439 | 0445 | 0515 | S06 | E37 | 4116 | 03 | 21.0 | 36 | SN M | 1.7 | C | 0445 | | | E | |
| | PEKG | 18 | 0440 | 0441 | 0451 | S08 | E34 | 4116 | 03 | 20.7 | 11 | IN M | 1.7 | C | 0441 | 197 | 2.4 | F | |
| | LEAR | 18 | 0440 | 0444 | 0454 | S07 | E38 | 4116 | 03 | 21.0 | 14 | SB M | 1.7 | 3 | C | 138 | | F | |
| | PURP | 18 | 0441E | 0445 | 0538 | S10 | E33 | 4116 | 03 | 20.7 | 57D | IN M | 1.7 | C | 0445 | 201 | 2.5 | E | |
| | LEAR | 18 | 0548 | 0550 | 0554 | S13 | E13 | 4115 | 03 | 19.2 | 6 | SF | | 3 | C | 26 | | | |
| 0239 | 18 | 08019 | 08084 | 0834 | S11 | E09 | 4115 | 03 | 19.0 | 33 | 1B C | 4.2 | | 296 | 2.9 | EFJ | | | |
| | LEAR | 18 | 0801 | 0808 | 0851 | S11 | E12 | 4115 | 03 | 19.2 | 50 | 1B C | 4.2 | 3 | C | 351 | | F | |
| | HTPR | 18 | 0805 | 0808 | 0845 | S11 | E09 | 4115 | 03 | 19.0 | 40 | 1B C | 4.2 | C | 0808 | 250 | 2.5 | E | |
| | PEKG | 18 | 0806 | 0808 | 0820 | S11 | E09 | 4115 | 03 | 19.0 | 14 | IN C | 4.2 | P | 0808 | 210 | 2.2 | FJ | |
| | ABST | 18 | 0806 | 0809 | 0830 | S11 | E08 | 4115 | 03 | 18.9 | 24 | IN C | 4.2 | C | 0809 | 436 | 4.4 | E | |
| | YUNN | 18 | 0807E | 0807U | 0830 | S12 | E09 | 4115 | 03 | 19.0 | 23D | SB C | 4.2 | P | 0807 | 157 | 1.6 | E | |
| | PURP | 18 | 0809E | 0810 | 0838 | S13 | E09 | 4115 | 03 | 19.0 | 29D | 1B C | 4.2 | C | 0810 | 201 | 2.1 | | |
| | CATA | 18 | 0810 | 0810 | 0825 | S12 | E09 | 4115 | 03 | 19.0 | 15 | 1 C | 4.2 | 2 | P | 281 | 2.9 | | |
| 0240 | BUCA | 18 | 0810E | 0812 | 0835 | S10 | E08 | 4115 | 03 | 18.9 | 25D | IN C | 4.2 | C | 0812 | 483 | 5.0 | E | |
| | HTPR | 18 | 1047 | 1050 | 1105 | S07 | E31 | 4116 | 03 | 20.8 | 18 | SN | | C | 1050 | 20 | .2 | | |
| | KANZ | 18 | 1258 | 1302 | 1306 | S14 | E08 | 4115 | 03 | 19.1 | 8 | SF | | 3 | | | | | |
| | 18 | 13245 | 13322 | 1339 | S10 | E41 | 4118 | 03 | 21.6 | 15 | SN | | | | 39 | .4 | E | | |
| | KANZ | 18 | 1324 | 1332 | 1340 | S10 | E41 | 4118 | 03 | 21.6 | 16 | SN | | 3 | | 30 | .4 | E | |
| | HTPR | 18 | 1325 | 1333 | 1338 | S10 | E40 | 4118 | 03 | 21.6 | 13 | SF | | C | 1333 | 48 | | | |
| | RAMY | 18 | 1329 | 1334 | 1339 | S11 | E41 | 4118 | 03 | 21.6 | 10 | SN | | 3 | C | | | | |
| 0243 | 18 | 14133 | 14182 | 1435 | S07 | E30 | 4116 | 03 | 20.8 | 22 | SB C | 3.3 | | 59 | .3 | | | | |
| | RAMY | 18 | 1413 | 1420 | 1445 | S08 | E31 | 4116 | 03 | 20.9 | 32 | SB C | 3.3 | 3 | C | 88 | | | |
| | KANZ | 18 | 1415 | 1418 | 1429 | S07 | E30 | 4116 | 03 | 20.8 | 14 | SB C | 3.3 | 3 | C | | | | |
| | HTPR | 18 | 1416 | 1419 | 1430 | S07 | E30 | 4116 | 03 | 20.8 | 14 | SB C | 3.3 | C | 1419 | 30 | .3 | | |
| | KANZ | 18 | 1444 | 1448 | 1456 | S13 | E01 | 4115 | 03 | 18.7 | 12 | SF | | 3 | | | | | |
| | 18 | 14536 | 1508 | 1525 | S06 | E30 | 4116 | 03 | 20.9 | 27 | SN C | 1.2 | | 71 | .3 | EF | | | |
| | HTPR | 18 | 1458 | 1508 | 1523 | S07 | E29 | 4116 | 03 | 20.8 | 25 | SB C | 1.2 | C | 1508 | 30 | .3 | E | |
| | RAMY | 18 | 1459 | 1508 | 1536 | S06 | E31 | 4116 | 03 | 20.9 | 37 | SN C | 1.2 | 3 | C | 140 | | | |
| 0246 | KANZ | 18 | 1504 | 1508 | 1517 | S05 | E31 | 4116 | 03 | 20.9 | 13 | SN C | 1.2 | 3 | C | 43 | | | |
| | HOLL | 18 | 1507E | 1507U | 1522D | S05 | E30 | 4116 | 03 | 20.9 | 15D | SF C | 1.2 | 3 | C | | | | F |
| | HTPR | 18 | 1538 | 1542 | 1553 | S10 | E39 | 4118 | 03 | 21.6 | 15 | SF | | C | 1542 | 20 | .2 | E | |
| | 18 | 1549* | 1555* | 1630 | S13 | E06 | 4115 | 03 | 19.1 | 41 | SF | | | | 41 | .5 | EF | | |
| | HTPR | 18 | 1549 | 1555 | 1607 | S11 | E06 | 4115 | 03 | 19.1 | 18 | SF | | C | 1555 | 50 | .5 | E | |
| 0247 | RAMY | 18 | 1550 | 1556 | 1609 | S13 | E06 | 4115 | 03 | 19.1 | 19 | SN | | 3 | C | 43 | | | |
| | HOLL | 18 | 1550E | 1621 | 1652 | S12 | E07 | 4115 | 03 | 19.2 | 62D | SF | | 3 | C | 29 | | | F |
| | RAMY | 18 | 1632 | 1641 | 1650 | S15 | E03 | 4115 | 03 | 18.9 | 18 | SF | | 3 | C | 41 | | | |

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | |
|-------|------|-----------|----------|----------|-----------|-----------------|--------|------|-----|------------------------|-----------|----------|-----|-----------|------------------|------|----------|
| | | | | | Lat | CMD | Region | Mo | Day | 10 ⁻⁶ Disk) | | | | | Apparent | Corr | (Sq Deg) |
| 0248 | RAMY | 18 | 1744 | 1745 | 1825 | S15 | E02 | 4115 | 03 | 18.9 | 41 | SF | 3 | C | | 30 | |
| 0249 | | 18 | 18511 | 1854 | 1922 | S08 | E28 | 4116 | 03 | 20.9 | 31 | 1B C 3.5 | | | | 203 | |
| | RAMY | 18 | 1851 | 1854 | 1925 | S08 | E28 | 4116 | 03 | 20.9 | 34 | 1B C 3.5 | 3 | C | | 226 | EF |
| | HOLL | 18 | 1852 | 1854 | 1920 | S08 | E28 | 4116 | 03 | 20.9 | 28 | SB C 3.5 | 3 | C | | 180 | FE |
| | | 18 | 2101 | | 2229 | No Flare Patrol | | | | | | | | | | | |
| 0250 | LEAR | 19 | 0029 | 0035 | 0047 | S13 | E02 | 4115 | 03 | 19.2 | 18 | SF | 3 | C | | 23 | |
| 0251 | LEAR | 19 | 0159 | 0200 | 0210 | S13 | E00 | 4115 | 03 | 19.1 | 11 | SF | 3 | C | | 73 | |
| 0252 | | 19 | 03008 | 0305* | 0323 | S12 | E00 | 4115 | 03 | 19.1 | 23 | SF C 1.1 | | | | 61 | F |
| | LEAR | 19 | 0300 | 0305 | 0307 | S12 | E01 | 4115 | 03 | 19.2 | 7 | SF | 3 | C | | 51 | F |
| | LEAR | 19 | 0308 | 0316 | 0339 | S12 | W01 | 4115 | 03 | 19.0 | 31 | SF C 1.1 | 3 | C | | 71 | |
| 0253 | LEAR | 19 | 0557 | 0605 | 0654 | S07 | E20 | 4116 | 03 | 20.7 | 57 | SF | 3 | C | | 42 | F |
| 0254 | ABST | 19 | 0628E | 0630 | 0638 | S14 | W05 | 4115 | 03 | 18.9 | 100 | SF | | P | 0630 | 37 | .9 D |
| 0255 | | 19 | 08003 | 0805 | 0818 | S13 | W06 | 4115 | 03 | 18.9 | 18 | SN | | | | 38 | .4 |
| | CATA | 19 | 0800 | 0805 | 0815 | S13 | W06 | 4115 | 03 | 18.9 | 15 | S | 2 | C | 0805 | 56 | .6 |
| | HTPR | 19 | 0803 | 0805 | 0822 | S13 | W05 | 4115 | 03 | 18.9 | 19 | SN | | C | 0805 | 20 | .2 |
| 0256 | HTPR | 19 | 0853 | 0855 | 0905 | S12 | W01 | 4115 | 03 | 19.3 | 12 | SF | | C | 0855 | 10 | .1 |
| | | 19 | 1002 | | 1004 | No Flare Patrol | | | | | | | | | | | |
| 0257 | HTPR | 19 | 1040 | 1041 | 1102 | S14 | W04 | 4115 | 03 | 19.1 | 22 | SF | | C | 1041 | 50 | .5 |
| 0258 | HTPR | 19 | 1201 | 1208 | 1220 | S13 | W04 | 4115 | 03 | 19.2 | 19 | SN | | C | 1208 | 60 | .6 E |
| 0259 | HTPR | 19 | 1304 | 1323 | 1338 | S13 | W04 | 4115 | 03 | 19.2 | 34 | SN | | C | 1323 | 50 | .5 E |
| 0260 | | 19 | 14201 | 14231 | 1436 | S14 | W04 | 4115 | 03 | 19.3 | 16 | SN | | | | 35 | .4 |
| | HTPR | 19 | 1420 | 1423 | 1442 | S14 | W04 | 4115 | 03 | 19.3 | 22 | SF | | C | 1423 | 40 | .4 |
| | RAMY | 19 | 1421 | 1424 | 1431 | S14 | W04 | 4115 | 03 | 19.3 | 10 | SN | 3 | C | | 30 | |
| 0261 | HTPR | 19 | 1535 | 1540 | 1544 | S14 | W05 | 4115 | 03 | 19.3 | 9 | SF | | C | 1540 | 30 | .3 |
| 0262 | HTPR | 19 | 1637 | | 1639 | S06 | E15 | 4116 | 03 | 20.8 | 2 | SN | | C | 1639 | 150 | 1.5 E |
| | | 19 | 1640 | | 1942 | No Flare Patrol | | | | | | | | | | | |
| | | 19 | 1948 | | 2233 | No Flare Patrol | | | | | | | | | | | |
| 0263 | PALE | 20 | 0046 | 0048U | 0110 | S12 | W10 | 4115 | 03 | 19.3 | 24 | SF | 3 | C | | 42 | |
| 0264 | YUNN | 20 | 0118 | 0120 | 0136 | S14 | E64 | 4120 | 03 | 24.9 | 18 | SN | | C | | 31 | .7 |
| 0265 | | 20 | 01271 | 01305 | 0156 | S13 | W13 | 4115 | 03 | 19.1 | 29 | SN C 1.0 | | | | 64 | .9 E |
| | YUNN | 20 | 0124E | 0132 | 0200 | S12 | W14 | 4115 | 03 | 19.0 | 36D | SB C 1.0 | | P | | 94 | 1.0 E |
| | LEAR | 20 | 0127 | 0130 | 0150 | S14 | W11 | 4115 | 03 | 19.2 | 23 | SF C 1.0 | 3 | C | | 41 | |
| | PALE | 20 | 0128 | 0132 | 0142 | S13 | W13 | 4115 | 03 | 19.1 | 14 | SF C 1.0 | 3 | C | | 40 | |
| | PURP | 20 | 0128 | 0135 | 0210 | S13 | W14 | 4115 | 03 | 19.0 | 42 | SF C 1.0 | | C | 0135 | 81 | .8 E |
| 0266 | | 20 | 0254 | 02559 | 0325 | S12 | W13 | 4115 | 03 | 19.1 | 31 | SN C 1.2 | | | | 58 | .7 E |
| | PALE | 20 | 0254 | 0255 | 0324 | S12 | W12 | 4115 | 03 | 19.2 | 30 | SF C 1.2 | 3 | C | | 40 | F |
| | LEAR | 20 | 0254 | 0259 | 0322 | S13 | W13 | 4115 | 03 | 19.1 | 28 | SF C 1.2 | 3 | C | | 46 | F |
| | PURP | 20 | 0257E | 0259 | 0330 | S13 | W15 | 4115 | 03 | 19. | 330 | SN C 1.2 | | C | 0259 | 67 | .7 E |
| | PEKG | 20 | 0257E | 0300U | 0326D | S13 | W13 | 4115 | 03 | 19.1 | 29D | SN C 1.2 | | P | 0300 | 59 | .6 E |
| | YUNN | 20 | 0502E | 0504 | 0524 | S12 | W14 | 4115 | 03 | 19.1 | 220 | SN C 1.2 | | P | | 79 | .8 E |
| 0267 | PURP | 20 | 0348E | 0348 | 0426 | S15 | W14 | 4115 | 03 | 19.1 | 38D | SF | | P | 0348 | 54 | .6 |
| 0268 | LEAR | 20 | 0525 | 0530 | 0559 | S13 | W15 | 4115 | 03 | 19.1 | 34 | SN C 1.8 | 3 | C | | 71 | F |
| 0269 | | 20 | 06505 | 0533 | 0707 | S10 | E03 | 4116 | 03 | 20.5 | 17 | SN | | | | 102 | 1.2 DEF |
| | ABST | 20 | 0650 | 0653 | 0705 | S11 | E02 | 4116 | 03 | 20.4 | 15 | SN | | | | 131 | 1.3 E |
| | CATA | 20 | 0650 | 0655 | 0700 | S12 | E02 | 4116 | 03 | 20.4 | 10 | S | 1 | C | 0655 | 169 | 1.7 |
| | YUNN | 20 | 0652E | 0656U | 06560 | S11 | E02 | 4116 | 03 | 20.4 | 40 | SN | | | 0656 | 79 | .8 F |
| | LEAR | 20 | 0653 | 0656 | 0714 | S13 | E02 | 4116 | 03 | 20.4 | 21 | SF | 3 | C | | 44 | F |
| | ABST | 20 | 0655 | 0656 | 0710 | S06 | E06 | 4116 | 03 | 20.7 | 15 | SF | | C | 0656 | 87 | .9 D |

34
Mar 83

H-ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | | | | Dur (Min) | Imp Opt | Xray | Obs See | Area Measurement | | |
|-------|------|-----------|----------|----------|-----------|-----------------|--------|-------|-----|-----------|-----------|---------|------|---------|-----------------------|---------------|---------|
| | | | | | Lat | CMD | Region | Mo | Day | Time (UT) | | | | | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks |
| 0270 | LEAR | 21 | 0510 | 0513 | 0534 | S13 | W28 | 4115 | 03 | 19.0 | 24 | SF | | 3 | C | 64 | F |
| 0271 | | 21 | 15281 | 15377 | 1608 | S13 | W37 | 4115 | 03 | 18.8 | 40 | SF | C | 1,1 | | 101 | |
| | RAMY | 21 | 1528 | 1537 | 1608 | S12 | W35 | 4115 | 03 | 19.0 | 40 | SF | C | 1,1 | 3 | C | 103 |
| | HOLL | 21 | 1529 | 1544 | 16020 | S14 | W39 | 4115 | 03 | 18.7 | 330 | SF | C | 1,1 | 3 | C | 99 |
| 0272 | | 21 | 20143 | 2019 | 2039 | S11 | W36 | 4115 | 03 | 19.1 | 25 | SN | C | 1,4 | | 81 | F |
| | HOLL | 21 | 2014 | 2019 | 2030 | S10 | W36 | 4115 | 03 | 19.1 | 16 | SN | C | 1,4 | 3 | C | 97 |
| | RAMY | 21 | 2014 | 2019 | 2048 | S12 | W36 | 4115 | 03 | 19.1 | 34 | SN | C | 1,4 | 3 | C | 93 |
| | PALE | 21 | 2017 | 2017U | 2026D | S12 | W37 | 4115 | 03 | 19.0 | 90 | SF | C | 1,4 | 3 | C | 53 |
| 0273 | | 21 | 2123 | 21255 | 2149 | S12 | W36 | 4115 | 03 | 19.2 | 26 | SN | C | 1,9 | | 80 | 1.0 |
| | HOLL | 21 | 2123 | 2125 | 2147 | S11 | W36 | 4115 | 03 | 19.2 | 24 | SN | C | 1,9 | 3 | C | 81 |
| | CULG | 21 | 2123 | 2130 | 2151 | S13 | W37 | 4115 | 03 | 19.1 | 28 | SN | C | 1,9 | | 80 | 1.0 |
| 0274 | LEAR | 22 | 0157 | 0157 | 0205 | S13 | W39 | 4115 | 03 | 19.1 | 8 | SF | C | 1,1 | 3 | C | 45 |
| 0275 | | 22 | 02397 | 02461 | 0300 | S12 | W40 | 4115 | 03 | 19.1 | 21 | SN | C | 1,1 | | 64 | .9 |
| | YUNN | 22 | 0239 | 0247 | 0304 | S10 | W41 | 4115 | 03 | 19.0 | 25 | SN | C | 1,1 | | 63 | .9 |
| | LEAR | 22 | 0246 | 0246 | 0257 | S13 | W40 | 4115 | 03 | 19.1 | 11 | SF | C | 1,1 | 3 | C | 64 |
| 0276 | | 22 | 03405 | 03451 | 0402 | S12 | W02 | 4121 | 03 | 22.0 | 22 | SN | C | 1,1 | | 76 | 1.3 |
| | CULG | 22 | 0340 | 0345 | 0356 | S11 | E00 | 4121 | 03 | 22.1 | 16 | SN | C | 1,1 | | 130 | 1.3 |
| | LEAR | 22 | 0345 | 0346 | 0409 | S13 | W04 | 4121 | 03 | 21.8 | 24 | SF | C | 1,1 | 3 | C | 23 |
| | | 22 | 1925 | | 1926 | No Flare Patrol | | | | | | | | | | | |
| 0277 | PALE | 22 | 1935 | 1935 | 1946 | S11 | W11 | 4118 | 03 | 22.0 | 11 | SF | | | 3 | C | 23 |
| | | 22 | 2008 | | 2045 | No Flare Patrol | | | | | | | | | | | |
| 0278 | | 23 | 0124 | 01255 | 0150 | S12 | W14 | 4121 | 03 | 22.0 | 26 | SN | C | 2,1 | | | 60 |
| | LEAR | 23 | 0124 | 0125 | 0201 | S12 | W14 | 4121 | 03 | 22.0 | 37 | SF | C | 2,1 | 3 | C | 56 |
| | YUNN | 23 | 0126E | 013C | 0139 | S11 | W14 | 4121 | 03 | 22.0 | 130 | SN | C | 2,1 | | P | 63 |
| 0279 | | 23 | 07177 | 0724* | 0753 | S11 | W19 | 4118 | 03 | 21.9 | 36 | SF | | | | | 109 |
| | ABST | 23 | 0717 | 0724 | 0745 | S12 | W20 | 4118 | 03 | 21.8 | 28 | SF | | | | | 157 |
| | CATA | 23 | 0720 | 0725 | 0750 | S11 | W19 | 4118 | 03 | 21.9 | 30 | S | | | 1 | C | 140 |
| | LEAR | 23 | 0721 | 0727 | 0803 | S12 | W18 | 4118 | 03 | 21.9 | 42 | SF | | | 3 | C | 73 |
| | PEKG | 23 | 0724 | 0727 | 0744 | S11 | W19 | 4118 | 03 | 21.9 | 20 | SF | | | | C | 0727 |
| | KANZ | 23 | 0730E | 0733 | 0805 | S12 | W18 | 4118 | 03 | 21.9 | 350 | SN | | | 3 | | 67 |
| 0280 | LEAR | 23 | 0747 | 0752 | 0753 | S11 | W58 | 4115 | 03 | 19.0 | 6 | SF | | | 3 | C | 20 |
| 0281 | | 23 | 0841* | 08454 | 0901 | S14 | E18 | 4120 | 03 | 24.7 | 20 | SF | | | | | 72 |
| | CATA | 23 | 0845E | 0845 | 0910 | S14 | E18 | 4120 | 03 | 24.7 | 350 | S | | | 1 | P | 112 |
| | HTPR | 23 | 0845E | 0900 | 0900 | S16 | E17 | 4120 | 03 | 24.6 | 200 | SF | | | | C | 60 |
| | KANZ | 23 | 0841 | 0849 | 0853D | S14 | E18 | 4120 | 03 | 24.7 | 120 | SN | | | 3 | | .6 |
| | KAND | 23 | 0841 | 0849 | 0858 | S14 | E18 | 4120 | 03 | 24.7 | 17 | SN | | | | C | 52 |
| | PEKG | 23 | 0844 | 0847 | 0858 | S13 | E17 | 4120 | 03 | 24.6 | 14 | SF | | | | C | 63 |
| | ISTA | 23 | 0855 | 0902 | 0902 | S13 | E17 | 4120 | 03 | 24.6 | 7 | SF | | | | | .7 |
| 0282 | RAMY | 23 | 1348 | 1348 | 1354 | S12 | W65 | 4115 | 03 | 18.7 | 6 | SF | | | 3 | C | 17 |
| 0283 | RAMY | 23 | 1440 | 1441 | 1449 | S15 | E58 | 4123A | 03 | 28.0 | 9 | SN | | | 3 | C | 32 |
| 0284 | RAMY | 23 | 1526 | 1534 | 1545 | S12 | W23 | 4121 | 03 | 21.9 | 19 | SF | | | 3 | C | 36 |
| 0285 | | 23 | 18521 | 1853 | 1900 | S12 | W66 | 4115 | 03 | 18.8 | 8 | SB | C | 4,0 | | | 102 |
| | RAMY | 23 | 1852 | 1853 | 1859 | S12 | W64 | 4115 | 03 | 19.0 | 7 | SB | C | 4,0 | 3 | C | 105 |
| | PALE | 23 | 1853 | 1853 | 1900 | S11 | W58 | 4115 | 03 | 18.7 | 7 | SB | C | 4,0 | 3 | C | 98 |
| 0286 | | 23 | 19273 | 19292 | 1952 | S14 | W22 | 4121 | 03 | 22.1 | 25 | SF | | | | | 34 |
| | RAMY | 23 | 1927 | 1929 | 1956 | S13 | W21 | 4121 | 03 | 22.2 | 29 | SF | | | 3 | C | 42 |
| | PALE | 23 | 1930 | 1931 | 1948 | S14 | W23 | 4121 | 03 | 22.1 | 18 | SF | | | 3 | C | 26 |
| | | 23 | 2148 | | 2215 | No Flare Patrol | | | | | | | | | | | |
| | | 23 | 2224 | | 2239 | No Flare Patrol | | | | | | | | | | | |

H - ALPHA SOLAR FLARES

35
Mar 83

MARCH 1983

| Grp # | Sta | Start Day | Max Day | End Day | NOAA/USAF | | | | | | | | Dur | Imp | Obs | Area Measurement | | |
|-------|------|-----------|---------|---------|-----------|-----------------|-----|------|--------|------|-----|----------|-----|------|-----|------------------|-----------|-----------------------|
| | | | | | (UT) | (UT) | Lat | CMD | Region | Mo | Day | (Min) | Opt | Xray | See | Type | Time (UT) | Apparent (10^-6 Disk) |
| 0287 | LEAR | 24 | 0052 | 0053 | 0127 | S12 | W29 | 4121 | 03 | 21.8 | 35 | SF | | 3 | C | | 108 | F |
| 0288 | CATA | 24 | 0340E | 0840 | 0855 | S11 | W05 | 4120 | 03 | 24.0 | 150 | S | | 1 | P | 0840 | 84 | .9 |
| 0289 | HOLL | 24 | 1511 | 1511 | 1517 | S13 | E00 | 4120 | 03 | 24.6 | 6 | SF | | 3 | C | | 20 | |
| 0290 | PALE | 24 | 17331 | 17342 | 1746 | S08 | W54 | 4116 | 03 | 20.7 | 13 | SF | | | | | 30 | F |
| | RAMY | 24 | 1733 | 1734 | 1748 | S08 | W54 | 4116 | 03 | 20.7 | 15 | SF | | 3 | C | | 33 | F |
| | | 24 | 1734 | 1736 | 1745 | S07 | W53 | 4116 | 03 | 20.8 | 11 | SF | | 3 | C | | 26 | |
| | | 24 | 2207 | | 2232 | No Flare Patrol | | | | | | | | | | | | |
| 0291 | CULG | 24 | 2327 | 2334 | 23420 | S17 | E44 | 4123 | 03 | 28.3 | 150 | SF | | | P | 2334 | 100 | 1.4 |
| | | 25 | 0221 | | 0228 | No Flare Patrol | | | | | | | | | | | | |
| 0292 | YUNN | 25 | 0247E | 0247U | 0252 | S17 | E88 | 4127 | 03 | 31.8 | 50 | | | | P | 0247 | | AG |
| 0293 | CULG | 25 | 0302 | 0305 | 0318 | S13 | W40 | 4121 | 03 | 22.1 | 16 | SN | | | | | 48 | .7 |
| | YUNN | 25 | 0302 | 0305 | 0316 | S13 | W38 | 4121 | 03 | 22.2 | 14 | SN | | | C | 0305 | 50 | .7 |
| | | 25 | 0305E | 0305U | 0321 | S13 | W42 | 4121 | 03 | 21.9 | 160 | SN | | | P | 0305 | 47 | .7 |
| 0294 | ABST | 25 | 0554E | 0557 | 05580 | N21 | W43 | 4124 | 03 | 21.9 | 40 | SF | | | P | 0557 | 87 | 1.4 |
| 0295 | HTPR | 25 | 1051 | 1058 | 1109 | S15 | W09 | 4120 | 03 | 24.8 | 18 | SF | | | C | 1058 | 30 | .3 |
| 0296 | HTPR | 25 | 1420 | 1432 | 1455 | S09 | E76 | 4125 | 03 | 31.3 | 35 | SN C 2.0 | | | | | 58 | EF |
| | HOLL | 25 | 1420 | 1432 | 1455 | S07 | E75 | 4125 | 03 | 31.2 | 35 | SF C 2.0 | | | C | 1432 | 50 | E |
| | | 25 | 1422E | 1437U | 1451D | S11 | E76 | 4125 | 03 | 31.3 | 290 | SN C 2.0 | 2 | C | | | 65 | F |
| 0297 | HTPR | 25 | 1430 | 1436 | 1515 | S11 | W68 | 4116 | 03 | 20.5 | 45 | SN | | | | | 30 | .7 |
| | HOLL | 25 | 1430 | 1436 | 1515 | S14 | W68 | 4116 | 03 | 20.5 | 45 | SF | | | C | 1436 | 30 | .7 |
| | | 25 | 1434E | 1436U | 1451D | S08 | W67 | 4116 | 03 | 20.6 | 170 | SN | | | 3 | C | 30 | |
| | | 25 | 1758 | | 1802 | No Flare Patrol | | | | | | | | | | | | |
| | | 25 | 1813 | | 1824 | No Flare Patrol | | | | | | | | | | | | |
| | | 25 | 1829 | | 1835 | No Flare Patrol | | | | | | | | | | | | |
| | | 25 | 1843 | | 1851 | No Flare Patrol | | | | | | | | | | | | |
| | | 25 | 2158 | | 2224 | No Flare Patrol | | | | | | | | | | | | |
| 0298 | VORO | 25 | 2318 | 2320 | 2327 | N20 | W58 | 4124 | 03 | 21.5 | 9 | SF | | | C | 2320 | 27 | .6 |
| 0299 | MANI | 25 | 23345 | 23425 | 2400 | N20 | W52 | 4124 | 03 | 22.0 | 26 | SN | | | | | 28 | DFJ |
| | VORO | 25 | 2334 | 2342 | 2403 | N20 | W55 | 4124 | 03 | 21.8 | 29 | SN | | | 1 | V | 30 | F |
| | LEAR | 25 | 2339 | 2343 | 2352 | N20 | W52 | 4124 | 03 | 22.0 | 13 | SN | | | C | 2343 | 36 | DJ |
| | | 25 | 2339 | 2347 | 2404 | N19 | W50 | 4124 | 03 | 22.2 | 25 | SN | | | 3 | C | 19 | |
| 0300 | LEAR | 26 | 0127 | 0127 | 0138 | N20 | W56 | 4124 | 03 | 21.8 | 11 | SF | | | 3 | C | 17 | |
| 0301 | YUNN | 26 | 0219 | 0219 | 0227 | S14 | W20 | 4120 | 03 | 24.6 | 8 | SN | | | | | 51 | .9 |
| | | 26 | 0218E | 0219 | 0228 | S13 | W20 | 4120 | 03 | 24.6 | 100 | SN | | | P | | 79 | FG |
| | LEAR | 26 | 0219 | 0221 | 0226 | S14 | W19 | 4120 | 03 | 24.7 | 7 | SF | | | 3 | C | 23 | |
| 0302 | YUNN | 26 | 02246 | 0231* | 0332 | N21 | W59 | 4124 | 03 | 21.6 | 68 | SN C 1.2 | | | | | 45 | 1.7 |
| | | 26 | 0224 | 0231 | 0301 | N21 | W61 | 4124 | 03 | 21.4 | 37 | SN | | | | C | 16 | D |
| | LEAR | 26 | 0230 | 0242 | 0403 | N20 | W58 | 4124 | 03 | 21.7 | 93 | SN C 1.2 | 3 | C | | | 43 | |
| | PEKG | 26 | 0245E | 0246 | 0248D | N22 | W59 | 4124 | 03 | 21.6 | 3D | SF C 1.2 | | | C | 0246 | 76 | 1.7 |
| 0303 | YUNN | 26 | 05591 | 0609 | 0621 | N22 | W62 | 4124 | 03 | 21.5 | 22 | 1N | | | | | 102 | EJ |
| | | 26 | 0559 | 0609 | 0621 | N22 | W64 | 4124 | 03 | 21.3 | 22 | SN | | | C | | 47 | |
| | ABST | 26 | 0600 | 0609 | 0712D | N22 | W60 | 4124 | 03 | 21.6 | 72D | 1N | | | P | 0609 | 157 | EJ |
| | | 26 | 0717* | 07326 | 0746 | N21 | W60 | 4124 | 03 | 21.7 | 29 | 1N | | | | | 111 | BEJ |
| 0304 | YUNN | 26 | 0717 | 0734 | 0743 | N21 | W61 | 4124 | 03 | 21.6 | 26 | 1B | | | | C | 94 | |
| | LEAR | 26 | 0730 | 0732 | 0749 | N20 | W59 | 4124 | 03 | 21.8 | 19 | SF | | | 3 | C | 65 | |
| | ABST | 26 | 0738E | 0738 | 0800D | N21 | W61 | 4124 | 03 | 21.6 | 22D | 1N | | | P | 0738 | 175 | BEJ |
| | | 26 | 0816 | | 0850 | No Flare Patrol | | | | | | | | | | | | |

H - ALPHA SOLAR FLARES

MARCH 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF | OMP | Dur | Imp | Obs | Area Measurement | | | | | | | | | | | |
|------------------------------|------|----------------|----------|----------|-------|-----------|------|-----|------|------|------------------|--------|----|------|-------|------|------|-----|------|-----------|----------------------------------|---------------|
| | | | | | | | | | | | CMD | Region | Mo | Day | (Min) | Opt | Xray | Sea | Type | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) |
| 26 0944 0949 No Flare Patrol | | | | | | | | | | | | | | | | | | | | | | |
| 0305 | HTPR | 26 | 0950E | | 1300 | N17 W67 | 4124 | 03 | 21.3 | 190D | SF | | C | 1121 | | 60 | | 1.4 | | | | |
| 0306 | | 26 | 14553 | 14594 | 1540 | N20 W64 | 4124 | 03 | 21.7 | 45 | SF | | | | | | | | 16 | | | |
| | HOLL | 26 | 1455 | 1503 | 1541 | N21 W64 | 4124 | 03 | 21.7 | 46 | SF | | 3 | C | | | | | 17 | | | |
| | RAMY | 26 | 1458 | 1459 | 1538 | N20 W63 | 4124 | 03 | 21.8 | 40 | SF | | 3 | C | | | | | 16 | | | |
| 0307 | | 26 | 1551 | 1646 | 1731 | N20 W64 | 4124 | 03 | 21.8 | 100 | SN C | 1.4 | | | | | | | 51 | | | |
| | HOLL | 26 | 1543E | 1648U | 1805 | N20 W65 | 4124 | 03 | 21.7 | 1420 | SN C | 1.4 | 3 | C | | | | | 54 | H | | |
| | RAMY | 26 | 1551 | 1646 | 1657 | N20 W64 | 4124 | 03 | 21.8 | 66 | SF C | 1.4 | 3 | C | | | | | 48 | | | |
| 0308 | RAMY | 26 | 1705 | 1716 | 1725 | N20 W63 | 4124 | 03 | 21.9 | 20 | SF | | 3 | C | | | | | 31 | | | |
| 0309 | | 26 | 1728* | 1747 | 1754 | N20 W66 | 4124 | 03 | 21.7 | 26 | SN | | | | | | | | 20 | | | |
| | RAMY | 26 | 1728 | 1747 | 1757 | N20 W63 | 4124 | 03 | 21.9 | 29 | SN | | 3 | C | | | | | 26 | | | |
| | PALE | 26 | 1743 | 1747 | 1752 | N20 W68 | 4124 | 03 | 21.5 | 9 | SN | | 3 | C | | | | | 13 | | | |
| 0310 | PALE | 26 | 1814 | 1816 | 1820 | N19 W69 | 4124 | 03 | 21.5 | 6 | SN | | 3 | C | | | | | | | | |
| 0311 | PALE | 26 | 1851 | 1856 | 1904 | N19 W69 | 4124 | 03 | 21.5 | 13 | SF | | 3 | C | | | | | | | | |
| 0312 | | 26 | 1913 | 19182 | 1925 | N20 W66 | 4124 | 03 | 21.7 | 12 | SN | | | | | | | | 39 | | | |
| | PALE | 26 | 1913 | 1918 | 1925 | N19 W68 | 4124 | 03 | 21.6 | 12 | SN | | 3 | C | | | | | 32 | | | |
| | RAMY | 26 | 1913 | 1920 | 1925 | N21 W65 | 4124 | 03 | 21.8 | 12 | SN | | 3 | C | | | | | 46 | | | |
| 0313 | | 26 | 20514 | 21027 | 2110 | N21 W66 | 4124 | 03 | 21.8 | 19 | SN | | | | | | | | 14 | | | |
| | HOLL | 26 | 2051 | 2109 | 2115 | N22 W70 | 4124 | 03 | 21.5 | 24 | SN | | 3 | C | | | | | 12 | | | |
| | RAMY | 26 | 2055 | 2102 | 2106 | N20 W63 | 4124 | 03 | 22.0 | 11 | SF | | 3 | C | | | | | 17 | | | |
| 0314 | KANZ | 27 | 0745 | 0746 | 0758 | S17 E67 | 4127 | 04 | 1.4 | 13 | SF | | 1 | | | | | | | | | |
| 0315 | KANZ | 27 | 1037 | | 1037D | S11 W71 | 4121 | 03 | 22.1 | 13D | SN | | 1 | | | | | | | | | |
| 27 1038 1103 No Flare Patrol | | | | | | | | | | | | | | | | | | | | | | |
| 0316 | KANZ | 27 | 1238 | | 1330D | S12 W73 | 4121 | 03 | 22.0 | 52D | SF | | 1 | | | | | | | | | |
| 0317 | | 27 | 1841 | 19082 | 1930 | S16 E32 | 4128 | 03 | 30.2 | 49 | SN C | 1.2 | | | | | | | 124 | | | |
| | HOLL | 27 | 1841 | 1908 | 1938 | S17 E32 | 4128 | 03 | 30.2 | 57 | SN C | 1.2 | 3 | C | | | | | 139 | FU | | |
| | PALE | 27 | 1859E | 1910 | 1923 | S15 E33 | 4128 | 03 | 30.3 | 24D | SF C | 1.2 | 4 | C | | | | | 110 | F | | |
| 0318 | YUNN | 28 | 0059 | 0111 | 0121 | S02 E90 | | 04 | 3.8 | 23 | | | C | | | | | | | AG | | |
| 0319 | | 28 | 0755 | 0754* | 0835 | S16 E24 | 4128 | 03 | 30.1 | 42 | IN C | 1.2 | | | | | | | 194 | E | | |
| | YUNN | 28 | 0752E | 0754 | 0837 | S15 E25 | 4128 | 03 | 30.2 | 45D | IN | | | | | | | | 204 | EF | | |
| | PEKG | 28 | 0755 | 0825 | 0838 | S17 E23 | 4128 | 03 | 30.1 | 45 | SF | | C | | 0025 | | | | 2.3 | E | | |
| | ABST | 28 | 0754E | 0756 | 0801D | S16 E24 | 4128 | 03 | 30.1 | 7D | IN C | 1.2 | P | | 0756 | | | | 279 | F | | |
| | CATA | 28 | 0805E | 0805 | 0840 | S16 E24 | 4128 | 03 | 30.1 | 35D | 1 C | 1.2 | 1 | P | | 0805 | | | 309 | 3.2 | | |
| | ATHN | 28 | 0807E | 0815 | 0825 | S15 E25 | 4128 | 03 | 30.2 | 18D | SN | | 3 | V | | 0815 | | | 95 | 3.5 | | |
| 0320 | | 28 | 1017 | 1026 | 1041 | S16 E27 | 4128 | 03 | 30.5 | 24 | SN | | | | | | | | | E | | |
| | KHAR | 28 | 1015E | | 1022D | S15 E29 | 4128 | 03 | 30.6 | 7D | SN | | P | | | | | | | E | | |
| | KANZ | 28 | 1017 | 1026 | 1041 | S16 E25 | 4128 | 03 | 30.3 | 24 | SN | | 3 | | | | | | | | | |
| 0321 | KANZ | 28 | 1217 | 1222 | 1233 | S16 E23 | 4128 | 03 | 30.2 | 16 | SN | | C | | | | | | 52 | L | | |
| 28 1401 2041 No Flare Patrol | | | | | | | | | | | | | | | | | | | | | | |
| 28 2055 2103 No Flare Patrol | | | | | | | | | | | | | | | | | | | | | | |
| 0322 | | 29 | 01123 | 01221 | 0142 | S14 E17 | 4128 | 03 | 30.3 | 30 | SF | | | | | | | | 104 | E | | |
| | CULG | 29 | 0112 | 0122 | 0134 | S14 E17 | 4128 | 03 | 30.3 | 22 | SF | | C | | 0122 | | | | 120 | EF | | |
| | PEKG | 29 | 0115 | 0123 | 0150 | S13 E17 | 4128 | 03 | 30.3 | 35 | SF | | C | | 0123 | | | | 88 | F | | |
| 0323 | | 29 | 01142 | 01184 | 0130 | S16 E24 | 4125 | 03 | 30.9 | 16 | 1F | | | | | | | | 190 | EJ | | |
| | VORO | 29 | 0114 | 0122 | 0132 | S15 E22 | 4125 | 03 | 30.7 | 18 | 1F | | C | | 0122 | | | | 349 | EJ | | |
| | CULG | 29 | 0116 | 0118 | 0128 | S16 E26 | 4125 | 03 | 31.0 | 12 | SF | | C | | 3 | | | | 30 | .3 | | |

H - ALPHA SOLAR FLARES

37
Mar 83

MARCH 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA USAF | CMD | Region | OMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | | | | | |
|-------|------|-------|------------|----------|----------|-----------------|-----------|------|--------|--------|-----------|---------|------|---------|------|------------------|------|-----|-----------|-----------------------|---------------|---------|--|
| | | | | | | | | | | | | | | | | Day | Mo | Day | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | |
| 0324 | YUNN | 29 | 0852E | 0852U | 0500 | S16 | E39 | 4127 | 04 | 1.3 | 80 | SF | | P | 0852 | 31 | .4 | | | | | | |
| 0325 | HTPR | 29 | 1550E | | 1601 | S19 | E11 | 4132 | 03 | 30.5 | 110 | SF | | C | 1556 | 20 | .2 | | | | | | |
| 0326 | HOLL | 29 | 2033 | 2040 | 2059 | S17 | E05 | 4128 | 03 | 30.2 | 26 | SN | | 3 | C | | | 53 | | F | | | |
| 0327 | 30 | 00306 | 00373 | 0054 | S16 | E31 | 4127 | 04 | 1.4 | 24 | IN | | | | | 191 | 2.6 | EFJ | | | | | |
| | HOLL | 30 | 0030 | 0036U | 0052 | S17 | E31 | 4127 | 04 | 1.4 | 22 | SN | | 2 | C | | 101 | | F | | | | |
| | CULG | 30 | 0032 | 0040 | 0050 | S15 | E30 | 4127 | 04 | 1.3 | 18 | SN | | | P | 0040 | 120 | 1.4 | F | | | | |
| | YUNN | 30 | 0033 | 0037 | 0058 | S16 | E31 | 4127 | 04 | 1.4 | 25 | IN | | | C | 0040 | 220 | 2.7 | F | | | | |
| | VORO | 30 | 0034 | 0040 | 0055 | S17 | E31 | 4127 | 04 | 1.4 | 19 | 1F | | | C | 0040 | 523 | 3.8 | EJ | | | | |
| 0328 | YUNN | 30 | 0420 | 0425 | 0436 | S18 | E31 | 4127 | 04 | 1.5 | 18 | SF | | | C | | 63 | .8 | | | | | |
| 0329 | ABST | 30 | 0507 | 0511 | 0521 | S20 | E32 | 4129 | 04 | 1.7 | 14 | SF | | | C | 0511 | 87 | 1.1 | DK | | | | |
| 0330 | ABST | 30 | 0711 | 0712 | 0720 | S20 | E32 | 4129 | 04 | 1.7 | 9 | 1F | | | C | 0712 | 218 | 2.6 | EV | | | | |
| 0331 | LEAR | 30 | 0847 | 0848 | 0852 | S18 | E21 | 4127 | 04 | 1.4 | 5 | SF | | 3 | C | | 24 | | | | | | |
| 0332 | HTPR | 30 | 0901 | 0904 | 0912 | S18 | E21 | 4127 | 04 | 1.5 | 11 | SF | | | C | 0904 | 20 | .2 | | | | | |
| 0333 | HTPR | 30 | 0917 | 0920 | 0940 | S18 | E21 | 4127 | 04 | 1.5 | 23 | SF | | | C | 0920 | 30 | .3 | | | | | |
| 0334 | 30 | 10028 | 1008* | 1122 | S18 | E27 | 4127 | 04 | 1.5 | 80 | SF | | | | | 41 | .4 | E | | | | | |
| | KAND | 30 | 1002 | 1008 | 1015 | S19 | E28 | 4127 | 04 | 1.5 | 13 | SF | | | C | | 42 | .5 | E | | | | |
| | HTPR | 30 | 1010 | 1130 | 1230 | S18 | E26 | 4127 | 04 | 1.4 | 140 | SF | | | C | 1130 | 40 | .4 | E | | | | |
| 0335 | HTPR | 30 | 1335 | 1345 | 1420 | S12 | E20 | 4127 | 04 | 1.1 | 45 | SF | | | C | 1345 | 60 | .6 | E | | | | |
| 0336 | HTPR | 30 | 1443 | | 1531D | S18 | E26 | 4127 | 04 | 1.6 | 480 | SF | | | C | 1520 | 40 | .4 | E | | | | |
| | 30 | 1635 | | | 1659 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0337 | 31 | 03231 | 0324 | 0328 | S18 | E20 | 4127 | 04 | 1.7 | 5 | SN | | | | 3 | C | 0324 | 20 | .3 | | | | |
| | CULG | 31 | 0323 | 0324 | 0328 | S17 | E19 | 4127 | 04 | 1.6 | 5 | SN | | | | | 20 | .3 | | | | | |
| | PALE | 31 | 0324 | 0324 | 0327 | S18 | E20 | 4127 | 04 | 1.7 | 3 | SF | | | | | 20 | | | | | | |
| | | 31 | 1039 | | 1105 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| | | 31 | 1122 | | 1309 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| | | 31 | 2206 | | 2210 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| | | 31 | 2238 | | 2326 | No Flare Patrol | | | | | | | | | | | | | | | | | |

"Remarks":

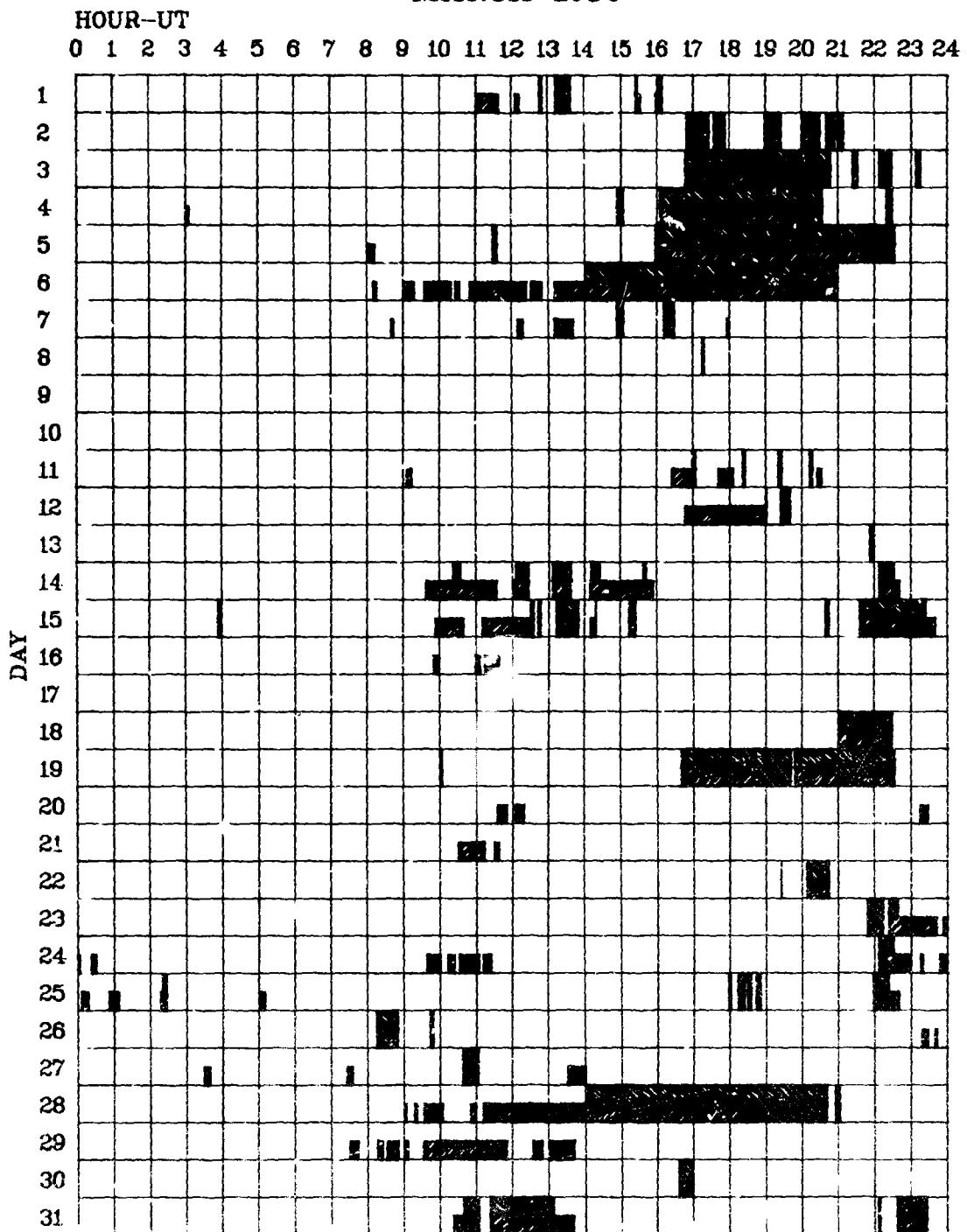
A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase: important expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

38
Mar 83

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

MARCH 1983



Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

| | | | | |
|------------|----------------|-------------|-------------|-------------|
| Abastumani | Culgoora | Kanzelhoehe | Mitaka | Ramiey |
| Athens | Haute Provence | Kharkov | Monte Mario | Tashkent |
| Bucharest | Holloman | Learmonth | Palehua | Voroshilov |
| Catania | Istanbul | Lvov | Peking | Wendelstein |
| | Kandilli | Manila | Purple Mt. | Yunnan |

H - ALPHA SOLAR FLARES

39
APR 83

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | | | | | Dur (Min) | Imp Opt | Obs Xray | Time (UT) | Area Measurement | | | |
|-------|------|-----------|----------|----------|-----------------|-----|--------|------|------|------|-----------------------|-----------|---------|----------|-----------|------------------|---------|-----|-----|
| | | | | | Lat | CMD | Region | Mo | Day | Time | Apparent (10^-6 Disk) | | | | | Corr (Sq Deg) | Remarks | | |
| | | 01 0000 | | 0025 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 01 0029 | | 0041 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 01 0048 | | 0049 | No Flare Patrol | | | | | | | | | | | | | | |
| 0001 | 01 | 0343* | 0346* | 0454 | S17 | E02 | 4127 | 04 | 1.3 | 71 | SF | C | .5 | | 47 | .6 | DE | | |
| | PURP | 01 | 0343 | 03550 | S18 | E04 | 4127 | 04 | 1.4 | 160 | SF | | | C | 0355 | 41 | .4 | | |
| | LEAR | 01 | 0345 | 0346 | S17 | E03 | 4127 | 04 | 1.4 | 28 | SF | C | .5 | 3 | C | 37 | | | |
| | PALE | 01 | 0345 | 0350 | S17 | E02 | 4127 | 04 | 1.3 | 90 | SF | C | .5 | 3 | C | 27 | | | |
| | PEKG | 01 | 0345 | 0354 | S17 | E02 | 4127 | 04 | 1.3 | 350 | SF | | | P | 0354 | 42 | .4 | | |
| | ABST | 01 | 0359 | 0406 | S18 | E02 | 4127 | 04 | 1.3 | 97 | SF | | | P | 0406 | 87 | .9 | | |
| | | 01 0916 | | 0924 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 01 0946 | | 0954 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 01 1041 | | 1049 | No Flare Patrol | | | | | | | | | | | | | | |
| 0002 | 01 | 18571 | 1900 | 1904 | S06 | W22 | 4131 | 05 | 31.1 | 7 | SF | | | | 33 | | F | | |
| | HOLL | 01 | 1857 | 1900 | S06 | W21 | 4131 | 03 | 31.2 | 6 | SF | | | 3 | C | 36 | F | | |
| | PALE | 01 | 1858 | 1900 | S07 | W22 | 4131 | 03 | 31.1 | 7 | SF | | | 3 | C | 30 | F | | |
| | | 01 2213 | | 2221 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 01 2226 | | 2233 | No Flare Patrol | | | | | | | | | | | | | | |
| 0003 | HOLL | 01 | 2243 | 2243 | 2300 | S12 | W24 | 4125 | 03 | 31.1 | 17 | SF | | | 3 | C | 26 | | |
| 0004 | | 02 | 1725 | 17282 | 1740 | S20 | W12 | 4129 | 04 | 1.8 | 15 | SF | | | | | 30 | | |
| | PALE | 02 | 1725 | 1728 | 1742 | S20 | W11 | 4129 | 04 | 1.9 | 17 | SF | | | 3 | C | 32 | | |
| | HOLL | 02 | 1725 | 1730 | 1739 | S20 | W13 | 4129 | 04 | 1.7 | 14 | SF | | | 3 | C | 27 | | |
| 0005 | HOLL | 02 | 2126 | 2126 | 2131 | S18 | W17 | 4127 | 04 | 1.6 | 5 | SF | C | .4 | 3 | C | 38 | | |
| 0006 | HOLL | 02 | 2221 | 2221 | 2226 | S11 | E72 | 4137 | 04 | 8.3 | 5 | SF | | | 3 | C | 14 | | |
| 0007 | | 03 | 13033 | 13042 | 1319 | S19 | W25 | 4127 | 04 | 1.6 | 16 | SN | C | 2.6 | | | 58 | | |
| | ATHN | 03 | 1303 | 1304 | 1315 | S20 | W23 | 4127 | 04 | 1.8 | 12 | SB | | | 3 | V | | | |
| | RAMY | 03 | 1306 | 1306 | 1313 | S18 | W25 | 4127 | 04 | 1.6 | 7 | SB | C | 2.6 | 3 | C | 72 | | |
| | HOLL | 03 | 1310F | 10U | 1328 | S19 | W27 | 4127 | 04 | 1.5 | 180 | SF | C | 2.6 | 1 | C | 45 | | |
| 0008 | HOLL | 03 | 1606 | 1608 | 1613 | S13 | E63 | 4135 | 04 | 8.4 | 7 | SF | | | 3 | C | 15 | | |
| 0009 | | 03 | 16587 | 17086 | 1806 | S17 | W30 | 4127 | 04 | 1.4 | 68 | IN | C | 3.5 | | | 203 | FKU | |
| | HOLL | 03 | 1658 | 1711 | 1804 | S16 | W31 | 4127 | 04 | 1.3 | 66 | IN | | | 3 | C | 209 | K | |
| | HOLL | 03 | 1658 | 1714 | 1804 | S16 | W31 | 4127 | 04 | 1.3 | 66 | IN | C | 3.5 | 3 | C | 209 | K | |
| | RAMY | 03 | 1702 | 1708 | 1708D | S17 | W30 | 4127 | 04 | 1.4 | 60 | IN | | | 3 | C | 200 | | |
| | PALE | 03 | 1705 | 1709 | 1811 | S18 | W30 | 4127 | 04 | 1.4 | 66 | IN | | | 3 | C | 194 | UF | |
| | | 03 2003 | | 2009 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 03 2023 | | 2119 | No Flare Patrol | | | | | | | | | | | | | | |
| | | 03 2235 | | 2300 | No Flare Patrol | | | | | | | | | | | | | | |
| 0010 | LEAR | 04 | 0301 | 0301 | 0309 | S17 | W34 | 4127 | 04 | 1.5 | 9 | SF | | | 3 | C | 36 | | |
| 0011 | LEAR | 04 | 0643 | 0645 | 0651 | S12 | E56 | 4135 | 04 | 8.5 | 8 | SNC | C | .6 | 3 | C | 31 | | |
| 0012 | CATA | 04 | 0655E | 0705 | 0715D | S16 | W33 | 4127 | 04 | 1.8 | 200 | 1 | | | 2 | P | 0705 | 169 | 2.1 |
| | | 04 1040 | | 1105 | No Flare Patrol | | | | | | | | | | | | | | |
| 0013 | RAMY | 04 | 1326 | 1328 | 1340 | S20 | W40 | 4127 | 04 | 1.5 | 14 | SN | C | 2.9 | 3 | C | 92 | | |
| 0014 | RAMY | 04 | 1537 | 1538 | 1600 | S18 | W42 | 4127 | 04 | 1.4 | 23 | SN | C | .4 | 3 | C | 29 | F | |
| 0015 | RAMY | 04 | 1643 | 1645 | 1752D | S19 | W41 | 4127 | 04 | 1.6 | 690 | SB | C | 3.7 | 3 | C | 115 | | |
| | | 04 1656 | | 1732 | No Flare Patrol | | | | | | | | | | | | | | |
| 0016 | PALE | 04 | 2003 | 2003 | 2016 | S20 | W44 | 4127 | 04 | 1.5 | 13 | SN | C | 1.3 | 3 | C | 65 | F | |
| | | 04 2101 | | 2141 | No Flare Patrol | | | | | | | | | | | | | | |

H - ALPHA SOLAR FLARES

41
Apr 83

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA/USAF CMO Region | OMP No | Dur (Min) | Imp Opt | Obs X-ray See | Area Measurement | | | | | | |
|-------|------|-----------|----------|----------|-----------------|----------------------|--------|-----------|---------|---------------|------------------|----|-----------|-----------------------|---------------|---------|------|
| | | | | | | | | | | | Day | Mo | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | |
| 0037 | LEAR | 07 0119 | 01221 | 0135 | S11 | E15 | 4137 | 04 | 8.2 | 16 | SF | | | 85 | 1.2 | EHIJ | |
| | | 07 0119 | 0122 | 0136 | S11 | E15 | 4137 | 04 | 8.2 | 17 | SF | 3 | C | 57 | | | |
| | PALE | 07 0119 | 0123 | 0133 | S11 | E15 | 4137 | 04 | 8.2 | 14 | SF | 3 | C | 54 | | | |
| | VORO | 07 0119 | 0123 | 01450 | S10 | E16 | 4137 | 04 | 8.2 | 260 | SN | | C | 0123 | 179 | 1.9 | EHIJ |
| | MANI | 07 0122E | 0123 | 0135 | S11 | E15 | 4137 | 04 | 8.2 | 130 | SF | 1 | V | 50 | .5 | | |
| 0038 | LEAR | 07 01443 | 01463 | 0204 | S19 | W68 | 4129 | 04 | 1.9 | 20 | SN | | | 63 | .9 | EF | |
| | CULG | 07 0144 | 0146 | 0159 | S21 | W68 | 4129 | 04 | 1.8 | 15 | SN | | C | 0146 | 50 | F | |
| | PURP | 07 0144 | 0146 | 0205 | S21 | W71 | 4129 | 04 | 1.6 | 21 | IN | | C | 0146 | 90 | E | |
| | LEAR | 07 0144 | 0146 | 0210 | S17 | W69 | 4129 | 04 | 1.8 | 25 | SN | 3 | C | 80 | | F | |
| | PALE | 07 0146 | 0147U | 0204 | S20 | W67 | 4129 | 04 | 1.9 | 18 | SN | 3 | C | 51 | | F | |
| | MANI | 07 0147 | 0149 | 0202D | S19 | W67 | 4129 | 04 | 2.0 | 150 | SN | 1 | V | 45 | .9 | F | |
| 0039 | LEAR | 07 0149* | 0154* | 0244 | S11 | E14 | 4137 | 04 | 8.1 | 55 | SN | C | 2.5 | | 124 | 1.4 | FU |
| | CULG | 07 0149 | 0154 | 0247 | S10 | E14 | 4137 | 04 | 8.1 | 58 | IN | | | 0154 | 220 | 2.2 | F |
| | LEAR | 07 0150 | 0155 | 0249 | S11 | E13 | 4137 | 04 | 8.0 | 59 | SN | C | 2.5 | | 141 | | F |
| | PURP | 07 0150 | 0157U | 0232 | S11 | E14 | 4137 | 04 | 8.1 | 42 | SB | C | 2.5 | 0157 | 110 | 1.2 | UF |
| | PALE | 07 0153E | 0200U | 0249 | S11 | E14 | 4137 | 04 | 8.1 | 560 | SN | 3 | C | | 164 | | |
| | PALE | 07 0210E | 0218 | 0238 | S11 | E16 | 4137 | 04 | 8.4 | 280 | SF | 3 | C | | 23 | | |
| | PEKG | 07 0214 | 0229 | 0250 | S11 | E14 | 4137 | 04 | 8.1 | 36 | SN | | P | 0229 | 84 | .9 | FU |
| 0040 | HTPR | 07 1202 | | 1217D | S17 | W85 | 4127 | 04 | 1.0 | 150 | SF | | C | 1207 | 10 | | |
| 0041 | HTPR | 07 1257E | | 1301D | S17 | W85 | 4127 | 04 | 1.1 | 40 | SN | | C | 1301 | 20 | | |
| 0042 | KANZ | 07 1402 | 1414 | 1427 | S10 | E09 | 4137 | 04 | 8.3 | 25 | SF | | 3 | | | | |
| 0043 | KANZ | 07 1406 | 1410 | 1418 | S15 | E50 | 4138 | 04 | 11.4 | 12 | SF | | 3 | | | | |
| | | 07 1428 | | 1455 | No Flare Patrol | | | | | | | | | | | | |
| | | 07 1505 | | 1703 | No Flare Patrol | | | | | | | | | | | | |
| 0044 | PALE | 07 1716 | 1729 | 1755 | S10 | E05 | 4137 | 04 | 8.1 | 39 | SF | | C | | 54 | | |
| | | 07 1857 | | 1911 | No Flare Patrol | | | | | | | | | | | | |
| | | 07 1921 | | 1940 | No Flare Patrol | | | | | | | | | | | | |
| | | 07 1944 | | 2000 | No Flare Patrol | | | | | | | | | | | | |
| | | 07 2024 | | 2048 | No Flare Patrol | | | | | | | | | | | | |
| | | 07 2101 | | 2109 | No Flare Patrol | | | | | | | | | | | | |
| 0045 | PALE | 08 0009 | 0012 | 0015 | S17 | E45 | 4138 | 04 | 11.4 | 6 | SF | | C | | 22 | | |
| 0046 | PALE | 08 0017 | 0020 | 0040 | S10 | E03 | 4137 | 04 | 8.2 | 23 | SN | C | .5 | 0020 | 90 | 1.5 | EFIJ |
| | | 08 0017 | 0020 | 0029 | S10 | E04 | 4137 | 04 | 8.3 | 12 | SF | C | .5 | | 38 | | F |
| | VORO | 08 0017 | 0020 | 0050 | S10 | E02 | 4137 | 04 | 8.2 | 33 | SN | | C | | 143 | 1.5 | EIJ |
| 0047 | PALE | 08 00449 | 0044* | 0107 | S17 | E44 | 4138 | 04 | 11.4 | 23 | SF | | | | 48 | 1.1 | DJK |
| | PALE | 08 0044 | 0044 | 0104 | S17 | E44 | 4138 | 04 | 11.4 | 20 | SF | | C | | 25 | | K |
| | PALE | 08 0044 | 0053 | 0104 | S17 | E44 | 4138 | 04 | 11.4 | 20 | SF | | C | | 39 | | K |
| | VORO | 08 0053 | 0054 | 0112 | S16 | E43 | 4138 | 04 | 11.3 | 19 | SN | | C | 0054 | 81 | 1.1 | DJ |
| 0048 | LEAR | 08 01176 | 01225 | 0141 | S16 | E44 | 4138 | 04 | 11.4 | 24 | SF | | | | 56 | .9 | DJ |
| | LEAR | 08 0117 | 0124 | 0139 | S17 | E44 | 4138 | 04 | 11.4 | 22 | SF | | C | | 47 | | |
| | PALE | 08 0117 | 0127 | 0144D | S16 | E42 | 4138 | 04 | 11.2 | 27D | SF | | C | | 52 | | |
| | MANI | 08 0120E | 0122 | 0143 | S17 | E45 | 4138 | 04 | 11.5 | 230 | SF | 1 | V | | 35 | .5 | |
| | VORO | 08 0123 | 0127 | 0135D | S16 | E43 | 4138 | 04 | 11.3 | 120 | SN | | C | 0127 | 90 | 1.3 | DJ |
| 0049 | ABST | 08 0620E | 0623 | 0640 | S15 | E40 | 4138 | 04 | 11.3 | 200 | SN | | P | 0623 | 131 | 1.7 | EHK |
| 0050 | ABST | 08 0621 | 0625 | 0645 | S10 | E01 | 4137 | 04 | 8.3 | 24 | SN | | C | 0625 | 174 | 1.8 | F |
| 0051 | KAND | 08 1002 | 1014 | 1018 | S17 | E38 | 4138 | 04 | 11.3 | 16 | SF | | C | | 21 | .3 | D |
| 0052 | RAMY | 08 1203 | 1203 | 1210 | S11 | W01 | 4137 | 04 | 8.4 | 7 | SN | | C | | 46 | | F |
| 0053 | KAND | 08 257* | 1313 | 1322 | S16 | E36 | 4138 | 04 | 11.3 | 25 | SB | | | | 40 | .5 | D |
| | KAND | 08 1257 | 1313 | 1328 | S17 | E37 | 4138 | 04 | 11.3 | 31 | SB | | C | | 37 | .5 | D |
| | RAMY | 08 1309 | 1313 | 1316 | S16 | E35 | 4138 | 04 | 11.2 | 7 | SN | | C | | 43 | | |

42
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA USAF Cmd | OMP Region | Dur (Min) | Imp Opt | Obs Xray | Time See (UT) | Area Measurement | | | | | |
|-------|------|-----------|----------|----------|-------|---------------|------------|-----------|---------|----------|---------------|------------------|-----|---------------------------------|----------|-------|---------|
| | | | | | | | | | | | | Mo | Day | Disk (10 ⁻⁶ (So Deg) | Apparent | Corr | Remarks |
| 0054 | RAMY | 08 | 1607 | 1608 | 1648 | S12 W01 | 4135 | 04 8.6 | 41 SF | 3 C | | | | 81 | | | |
| 0055 | RAMY | 08 | 1657 | 1702 | 1707 | S15 E34 | 4138 | 04 11.3 | 10 SN | 3 C 1.3 | | | | 43 | | | |
| 0056 | PALE | 08 | 1728 | 1728 | 1739 | S15 E34 | 4138 | 04 11.3 | 11 SF | 4 C | | | | 29 | | | |
| 0057 | PALE | 08 | 1751 | 1756 | 1801 | S15 E33 | 4138 | 04 11.2 | 10 SF | 4 C | | | | 35 | | | |
| 0058 | | 08 | 18036 | 1812 | 1817 | S15 E33 | 4138 | 04 11.2 | 14 SN | 3 C .6 | | | | 66 | | | |
| | RAMY | 08 | 1803 | 1812 | 1817 | S15 E33 | 4138 | 04 11.2 | 14 SN | 3 C .6 | | | | 68 | | | |
| | PALE | 08 | 1809 | 1812 | 1817 | S15 E33 | 4138 | 04 11.2 | 8 SF | 4 C .6 | | | | 63 | | | |
| | | 08 | 2009 | | 2026 | No Flare | Patrol | | | | | | | | | | |
| | | 08 | 2034 | | 2053 | No Flare | Patrol | | | | | | | | | | |
| | | 08 | 2105 | | 2115 | No Flare | Patrol | | | | | | | | | | |
| | | 08 | 2132 | | 2210 | No Flare | Patrol | | | | | | | | | | |
| | | 08 | 2214 | | 2218 | No Flare | Patrol | | | | | | | | | | |
| 0059 | PALE | 09 | 0256 | 0300 | 0305 | S11 W16 | 4137 | 04 7.9 | 9 SF | 3 C | | | | 26 | | | |
| 0060 | LEAR | 09 | 0258 | 0300 | 0303 | S18 E29 | 4138 | 04 11.3 | 5 SF | 3 C | | | | 46 | | | |
| 0061 | | 09 | 04553 | 04588 | 0519 | S11 W08 | 4135 | 04 8.6 | 24 SN | 3 C 2.3 | | | | 135 | 1.3 | EFHJK | |
| | MITK | 09 | 0455 | 0458 | 0524 | S12 W08 | 4135 | 04 8.6 | 29 SN | | C | 0458 | | | | | |
| | CULG | 09 | 0455 | 0459 | 0510D | S11 W09 | 4135 | 04 8.5 | 150 SB | | P | 0459 | | .9 | EK | | |
| | ABST | 09 | 0456E | 0502 | 0523 | S11 W09 | 4135 | 04 8.5 | 27D SN | | P | 0502 | | 2.0 | FHJ | | |
| | PEKG | 09 | 0458 | 0506 | 0510 | S11 W09 | 4135 | 04 8.5 | 12 SN | 3 C 2.3 | C | 0506 | | 1.0 | E | | |
| | LEAR | 09 | 0502E | 0503 | 0518 | S12 W08 | 4135 | 04 8.6 | 16D SN | 3 C 2.3 | 2 C | | | 157 | | H | |
| 0062 | ABST | 09 | 0607E | 0607 | 0632D | S10 W16 | 4137 | 04 8.0 | 25D SF | | P | 0607 | | 157 | 1.6 | EJ | |
| 0063 | | 09 | 08152 | 08173 | 0831 | S18 E26 | 4138 | 04 11.3 | 16 SN | 3 C 1.1 | | | | 114 | 1.6 | E | |
| | CATA | 09 | 0815 | 0820 | 0850 | S18 E25 | 4138 | 04 11.2 | 15 S | 1 C | 0820 | | 140 | 1.6 | | | |
| | LEAR | 09 | 0816 | 0819 | 0834 | S18 E25 | 4138 | 04 11.2 | 18 SF | 3 C 1.1 | | | | 77 | | E | |
| | ISTA | 09 | 0817 | | 0827 | S18 E26 | 4138 | 04 11.3 | 10 SN | 3 C 1.1 | | | | | | | |
| | KANZ | 09 | 0817 | 0817 | 0837 | S17 E27 | 4138 | 04 11.4 | 20 SN | 3 | | | | | | | |
| | YUNN | 09 | 0822E | 0822U | 0828 | S18 E26 | 4138 | 04 11.3 | 6D SN | | P | 0822 | | 126 | 1.5 | E | |
| 0064 | KANZ | 09 | 0910 | 0918 | 0926 | S15 E26 | 4138 | 04 11.3 | 16 SN | 3 | | | | | | | |
| 0065 | | 09 | 11107 | 11191 | 1140 | S18 E25 | 4138 | 04 11.4 | 30 SN | 3 C 1.1 | | | | 86 | 1.3 | F | |
| | CATA | 09 | 1110 | 1120 | 1130 | S18 E25 | 4138 | 04 11.4 | 20 S | 1 C | 1120 | | 112 | 1.3 | | | |
| | RAMY | 09 | 1117 | 1119 | 1149 | S17 E25 | 4138 | 04 11.4 | 32 SN | 3 C 1.1 | | | | 60 | | F | |
| 0066 | HOLL | 09 | 1512 | 1515 | 1529 | S18 E21 | 4138 | 04 11.2 | 17 SN | 3 C 1.0 | 4 C | | | 110 | | FH | |
| 0067 | HOLL | 09 | 1603 | 1604 | 1607 | S08 E39 | 4140 | 04 12.6 | 4 SF | 3 C | | | | 18 | | | |
| 0068 | | 09 | 1635 | 1635* | 1704 | S10 E64 | | 04 14.5 | 29 SF | 3 C .6 | | | | 47 | | F | |
| | HOLL | 09 | 1635 | 1635 | 1707 | S11 E64 | | 04 14.5 | 32 SF | 4 C | | | | 37 | | F | |
| | RAMY | 09 | 1635 | 1648 | 1701 | S10 E65 | | 04 14.6 | 26 SF | 3 C .6 | | | | 57 | | | |
| 0069 | | 09 | 17441 | 1745 | 1805 | S18 E20 | 4138 | 04 11.3 | 21 SN | 3 C .5 | | | | 42 | | F | |
| | HOLL | 09 | 1744 | 1745 | 1809 | S18 E20 | 4138 | 04 11.3 | 25 SN | 3 C .5 | | | | 44 | | F | |
| | RAMY | 09 | 1745 | 1745 | 1801 | S17 E21 | 4138 | 04 11.3 | 16 SF | 3 C .5 | | | | 41 | | | |
| 0070 | HOLL | 10 | 0025 | 0026 | 0028 | S12 W24 | 4137 | 04 8.2 | 3 SF | 3 C | | | | 34 | | | |
| 0071 | | 10 | 07219 | 07269 | 0745 | S10 E58 | | 04 14.7 | 24 SF | | | | | 132 | 3.0 | | |
| | LEAR | 10 | 0721 | 0730 | 0740 | S11 E58 | | 04 14.7 | 19 SF | 3 C | | | | 85 | | | |
| | KANZ | 10 | 0722 | 0726 | 07260 | S10 E58 | | 04 14.7 | 4D SF | 1 | | | | | | | |
| | MANI | 10 | 0724 | 0731 | 07380 | S10 E58 | | 04 14.7 | 14D SF | 1 V | | | | 95 | 1.7 | | |
| | BUCA | 10 | 0728 | | 0756 | S09 E58 | | 04 14.7 | 28 1F | | P | 0730 | | 215 | 4.1 | | |
| | ATHN | 10 | 0730 | 0735 | 0740 | S10 E60 | | 04 14.8 | 10 1F | 4 V | 0735 | | | 134 | 3.2 | | |
| 0072 | KANZ | 10 | 0956 | 1000 | 1008 | S07 E29 | 4140 | 04 12.6 | 12 SN | 3 | | | | | D | | |
| 0073 | KANZ | 10 | 1245 | 1248 | 1300 | S09 W33 | 4137 | 04 8.0 | 15 SF | 2 | | | | | | | |

H - ALPHA SOLAR FLARES

43
Apr 83

APRIL 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/ | | | | | | Obs | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Area Measurement Remarks | |
|-------|------|----------------|----------|----------|---------|----------|-----------|-----|------|-------|-----|-----------|-----------------------|---------------|--------------------------|-----|
| | | | | | USAF | OMP | Dur (Min) | Imp | Opt | X-ray | | | | | | |
| 0074 | 10 | 15141 | 15201 | 1540 | S11 W33 | 4137 | 04 | 8.1 | 26 | SF | C | .5 | | 40 | F | |
| | RAHY | 10 | 1514 | 1520 | S13 W33 | 4137 | 04 | 8.1 | 26 | SF | C | .5 | 3 | 52 | | |
| | HOLL | 10 | 1515 | 1520 | S13 W32 | 4137 | 04 | 8.2 | 20D | SF | C | .5 | 4 | 27 | F | |
| | KANZ | 10 | 1517E | 1521 | S09 W35 | 4137 | 04 | 8.0 | 4D | SF | | | 2 | | | |
| 0075 | | 10 | 22162 | 22191 | 2235 | S06 E22 | 4140 | 04 | 12.6 | 19 | SF | C | .8 | | | |
| | CULG | 10 | 2216 | 2220 | 2226 | S05 E22 | 4140 | 04 | 12.6 | 10 | SF | | | 48 | .6 | |
| | HOLL | 10 | 2218 | 2219 | 2231 | S06 E23 | 4140 | 04 | 12.6 | 13 | SF | C | .8 | 50 | DJ | |
| | YORG | 10 | 2218 | 2220 | 2247 | S07 E22 | 4140 | 04 | 12.6 | 29 | SF | | | 32 | F | |
| | | | | | | | | | | | | | | 2221 | .7 | |
| 0076 | | 11 | 02112 | 02151 | 0225 | S12 W40 | 4137 | 04 | 8.1 | 14 | SN | | | 80 | 1.7 | |
| | YUNN | 11 | 0211 | 0215 | 0224 | S12 W41 | 4137 | 04 | 8.0 | 13 | SN | | | 126 | | |
| | LEAR | 11 | 0213 | 0216 | 0226 | S12 W40 | 4137 | 04 | 8.1 | 13 | SF | | 3 | 35 | 1.7 | |
| 0077 | ATHN | 11 | 0945E | 0946 | 0958 | S09 W39 | 4137 | 04 | 8.5 | 13D | SF | | 3 | V | 0946 | .4 |
| 0078 | | 11 | 1015 | 1015 | 1028 | S11 W44 | 4137 | 04 | 8.1 | 13 | SN | | | 52 | .8 | |
| | CATA | 11 | 1015 | 1015 | 1025 | S14 W43 | 4137 | 04 | 8.2 | 10 | S | | 1 | C | 1015 | .8 |
| | ATHN | 11 | 1015 | 1015 | 1030 | S08 W46 | 4137 | 04 | 8.0 | 15 | SN | | 3 | V | 1030 | .7 |
| 0079 | KANZ | 11 | 1320 | 1328 | 1336 | S08 E65 | 4148A | 04 | 16.4 | 16 | SN | | 2 | | | |
| 0080 | HOLL | 11 | 1450 | 1500 | 1514 | S08 W48 | 4137 | 04 | 8.0 | 24 | SF | | 3 | C | 23 | |
| | | 11 | 1539 | | 1703 | No Flare | Patrol | | | | | | | | | |
| | | 11 | 1709 | | 1737 | No Flare | Patrol | | | | | | | | | |
| 0081 | HOLL | 11 | 1858 | 1859 | 1907 | S17 W07 | 4138 | 04 | 11.2 | 9 | SF | | 3 | C | 35 | |
| 0082 | HOLL | 11 | 1954E | 1955U | 2011 | S06 E10 | 4140 | 04 | 12.6 | 17D | SF | | 3 | C | 25 | |
| | | 11 | 2023 | | 2025 | No Flare | Patrol | | | | | | | | | |
| | | 11 | 2101 | | 2201 | No Flare | Patrol | | | | | | | | | |
| 0083 | YORO | 11 | 2342 | 2348 | 2410 | S18 W11 | 4138 | 04 | 11.1 | 28 | 1F | | | C | 2348 | 197 |
| 0084 | HTPR | 12 | 1424 | 1429 | 1454 | S09 E58 | 4142 | 04 | 16.9 | 30 | SF | | | C | 1429 | .1 |
| | | 12 | 1707 | | 1736 | No Flare | Patrol | | | | | | | | | E |
| 0085 | HOLL | 12 | 1900 | 1900 | 1903 | S08 E49 | 4145 | 04 | 16.5 | 3 | SF | C | .4 | 3 | C | 24 |
| | | 12 | 2033 | | 2047 | No Flare | Patrol | | | | | | | | | |
| | | 12 | 2116 | | 2130 | No Flare | Patrol | | | | | | | | | |
| | | 12 | 2135 | | 2147 | No Flare | Patrol | | | | | | | | | |
| 0086 | | 13 | 0008* | 0012* | 0030 | S10 W65 | 4137 | 04 | 8.1 | 22 | SN | | | | 52 | 1.1 |
| | MANI | 13 | 0008 | 0012 | 0028 | S10 W65 | 4137 | 04 | 8.1 | 20 | SN | | 1 | V | 55 | |
| | LEAR | 13 | 0022 | 0023 | 0031 | S10 W65 | 4137 | 04 | 8.1 | 9 | SN | | 3 | C | 50 | |
| 0087 | CULG | 13 | 0407 | 0412 | 0418 | S03 E46 | 4142 | 04 | 16.6 | 11 | SF | | | C | 0412 | .4 |
| 0088 | ABST | 13 | 0614 | 0616 | 0626 | S12 W71 | 4137 | 04 | 7.9 | 12 | SF | | | P | 0616 | 70 |
| 0089 | CATA | 13 | 0830 | 0830 | 0835 | S08 W71 | 4137 | 04 | 8.0 | 5 | S | | 1 | C | 0830 | 56 |
| 0090 | HTPR | 13 | 0938 | 0944 | 0951 | S12 E40 | 4148A | 04 | 16.4 | 13 | SN | | | C | 0944 | .4 |
| 0091 | | 13 | 1003* | 1007* | 1040 | S10 E46 | 4142 | 04 | 16.9 | 37 | SF | | | | 15 | .2 |
| | HTPR | 13 | 1003 | 1007 | 1017 | S10 E46 | 4142 | 04 | 16.9 | 14 | SN | | | C | 1007 | .3 |
| | KHAR | 13 | 1007E | | 1011D | S11 E45 | 4142 | 04 | 16.8 | 4D | SF | | | P | 1007 | D |
| | HTPR | 13 | 1023 | 1035 | 1102 | S10 E46 | 4142 | 04 | 16.9 | 39 | SF | | | C | 1035 | .1 |
| 0092 | | 13 | 1013 | 1021 | 1031 | S12 E40 | 4148A | 04 | 16.4 | 18 | SN | | | | 30 | .4 |
| | HTPR | 13 | 1013 | 1021 | 1031 | S12 E40 | 4148A | 04 | 16.4 | 18 | SN | | | C | 1021* | .4 |
| | KHAR | 13 | 1017E | | 1024D | S12 E41 | 4148A | 04 | 16.5 | 7D | SF | | | P | 1017 | |
| 0093 | HTPR | 13 | 1039 | 1050 | 1104 | S12 E39 | 4148A | 04 | 16.4 | 25 | SN | | | C | 1050 | .5 |

H-ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Start Day | Max Day | End Day | NOAA/USAF | | | | | | | | Dur (Min) | Imp Opt | Xray | Obs See | Area Measurement | | |
|-------|------|-----------|---------|---------|-----------|-----------------|------|-------|--------|--------|------|-----------|-----------|---------|------|---------|-----------------------|---------------|---------|
| | | | | | (UT) | (UT) | (UT) | CMD | Region | OMP Mo | Day | Time (UT) | | | | | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks |
| 0094 | HTPR | 13 | 1121 | 1130 | 1136 | S08 | E35 | 4148A | 04 | 16.1 | 15 | SF | | C | 1130 | 10 | .1 | | |
| 0095 | HTPR | 13 | 1420 | 1421 | 1436 | S10 | E15 | | 04 | 14.7 | 16 | SN | | C | 1421 | 20 | .2 | | |
| 0096 | HOLL | 13 | 1525 | 1525 | 1537 | S09 | E36 | 4148A | 04 | 16.3 | 12 | SF | C | .4 | 3 | C | 27 | F | |
| 0097 | HOLL | 13 | 1633 | 1633 | 1639 | S08 | W77 | 4137 | 04 | 7.9 | 6 | SF | | 3 | C | | 9 | | |
| 0098 | HOLL | 13 | 1726 | 1726 | 1733 | S08 | E35 | 4148A | 04 | 16.3 | 7 | SF | C | .5 | 3 | C | 24 | | |
| 0099 | HOLL | 13 | 1746 | 1759 | 1800 | N20 | E60 | 4144 | 04 | 18.3 | 14 | SF | | 3 | C | | 25 | | |
| 0100 | HOLL | 13 | 1747 | 1747 | 1755 | S08 | W77 | 4137 | 04 | 8.0 | 8 | SF | | 3 | C | | 11 | | |
| | | 13 | 1949 | | 1950 | No Flare Patrol | | | | | | | | | | | | | |
| 0101 | | 13 | 2009 | 2009 | 2017 | S08 | E35 | 4145 | 04 | 16.5 | 8 | SF | | | | | 34 | | |
| | HOLL | 13 | 2009 | 2009 | 2017 | S10 | E35 | 4145 | 04 | 16.5 | 8 | SF | | 3 | C | | 36 | | |
| | PALE | 13 | 2009 | 2010 | 2014D | S07 | E35 | 4145 | 04 | 16.5 | 5D | SF | | 3 | C | | 31 | | |
| 0102 | HOLL | 13 | 2051 | 2053 | 2059 | S09 | E41 | 4142 | 04 | 16.9 | 8 | SF | | 3 | C | | 24 | | |
| 0103 | YUNN | 14 | 0104 | 0109 | 0125 | S09 | E34 | 4142 | 04 | 16.6 | 21 | SN | | C | | 79 | 1.0 | | |
| 0104 | ABST | 14 | 0403E | 0403 | 0425 | S14 | W89 | 4137 | 04 | 7.4 | 22D | 1F | | P | 0403 | 87 | | AD | |
| 0105 | ABST | 14 | 0412 | 0416 | 0425 | N26 | E54 | 4144 | 04 | 18.4 | 13 | SF | | C | 0416 | 87 | 1.7 | D | |
| 0106 | ABST | 14 | 0422 | 0424 | 0440 | S07 | E35 | 4142 | 04 | 16.8 | 18 | 1F | | C | 0424 | 87 | | AJK | |
| 0107 | | 14 | 0601 | 0604* | 0625 | N06 | E90 | 4146 | 04 | 21.0 | 24 | IN | | | | | 115 | FJ | |
| | ABST | 14 | 0601 | 0604 | 0625 | NC7 | E90 | 4146 | 04 | 21.0 | 24 | IN | | | | | 174 | FJ | |
| | CATA | 14 | 0650E | 0700 | 0705D | N06 | E90 | 4146 | 04 | 21.0 | 15D | 1 | | 1 | P | 0604 | 56 | | |
| | | | | | | | | | | | | | | | 0700 | | | | |
| 0108 | CULG | 14 | 0602 | 0606 | 0619 | S06 | E35 | 4142 | 04 | 16.9 | 17 | SF | | C | 0606 | 40 | .4 | F | |
| 0109 | | 14 | 0817 | 0830I | 0950 | S06 | E37 | 4142 | 04 | 17.1 | 93 | 2N | | | | | 362 | 5.3 | |
| | HTPR | 14 | 0817 | 0831 | 0950 | S05 | E40 | 4142 | 04 | 17.3 | 93 | 2N | | C | 0831 | 500 | 7.8 | CEISU | |
| | ATHN | 14 | 0825E | 0830 | 1031D | S08 | E34 | 4142 | 04 | 16.9 | 126D | 1N | | 2 | V | 0830 | 223 | 2.8 | |
| 0110 | | 14 | 0839E | 0848T | 0923 | S14 | E49 | | 04 | 18.1 | 50D | 2N | | | | | 512 | 8.0 | |
| | MONT | 14 | 0839E | 0848 | 0946 | S13 | E51 | | 04 | 18.2 | 67D | 1N | | | | | 500 | B | |
| | CATA | 14 | 0850E | 0855 | 0900D | S15 | E48 | | 04 | 18.0 | 10D | 2 | | 1 | P | 0855 | 674 | 10.4 | |
| | YUNN | 14 | 0900E | 0900U | 0912 | S13 | E49 | | 04 | 18.1 | 12D | 2N | | | P | 0900 | 362 | 5.7 | BG |
| 0111 | | 14 | 0850E | 0855 | 0923D | N06 | E90 | 4146 | 04 | 21.1 | 33D | 1F | | | | | 68 | H | |
| | CATA | 14 | 0850E | 0855 | 0900D | N06 | E90 | 4146 | 04 | 21.1 | 10D | 1 | | 1 | P | 0855 | 68 | | |
| | KHAR | 14 | 0912E | | 0923D | N06 | E90 | 4146 | 04 | 21.1 | 11D | SF | | | P | | | H | |
| 0112 | HTPR | 14 | 0906 | 0923 | 0928 | S09 | E32 | 4142 | 04 | 16.8 | 22 | SF | | C | 0923 | 20 | .2 | E | |
| 0113 | HTPR | 14 | 1016 | 1017 | 1026 | S08 | E30 | 4142 | 04 | 16.7 | 10 | SF | | C | 1017 | 20 | .2 | | |
| 0114 | HTPR | 14 | 1217 | 1223 | 1320 | S09 | E31 | 4142 | 04 | 16.8 | 63 | 1N | | C | 1239 | 250 | 2.9 | EK | |
| 0115 | ATHN | 14 | 1252E | 1252 | 1341 | S08 | E34 | 4142 | 04 | 17.1 | 49D | SN | | 2 | V | 1252 | 159 | 2.0 | |
| 0116 | KANZ | 14 | 1318E | 1318 | 1329 | S09 | E24 | 4148A | 04 | 16.3 | 11D | SF | | 2 | | | | | |
| 0117 | KANZ | 14 | 1341 | 1352 | 1408 | N11 | E73 | 4146 | 04 | 20.1 | 27 | SF | | 3 | | | | | |
| 0118 | | 14 | 14013 | 14071 | 1414 | S09 | E27 | 4148A | 04 | 16.6 | 13 | SN | | | | | 30 | .3 | |
| | HTPR | 14 | 1401 | 1407 | 1412 | S09 | E30 | 4148A | 04 | 16.8 | 11 | SF | | | C | 1407 | 30 | .3 | |
| | KANZ | 14 | 1404 | 1408 | 1415 | S09 | E24 | 4148A | 04 | 16.4 | 11 | SN | | 3 | | | | | |
| 0119 | KANZ | 14 | 1423 | 1427 | 1431 | N12 | E76 | 4146 | 04 | 20.3 | 8 | SF | | 3 | | | | | |
| 0120 | KANZ | 14 | 1534 | 1540 | 1540D | S11 | W77 | 4137 | 04 | 8.6 | 6D | SN | | 1 | | | | | |

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA/USAF CMD | OMP Region | Dur Mo Day | Imp (Min) | Obs Opt | Area Measurement | | | | | |
|-------|------|-----------|----------|----------|-------|-----------------|-----------------|------------|-----------|---------|------------------|-----------------------|---------------|---------|-----|---|
| | | | | | | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | | |
| 0121 | | 14 | 15351 | 15361 | 1541 | N12 E72 | 4146 | 04 20.1 | 6 | SN | | 20 | | D | | |
| | HTPR | 14 | 1535 | 1537 | 1541 | N12 E71 | 4146 | 04 20.0 | 6 | SF | | 20 | | | | |
| | KANZ | 14 | 1536 | 1536 | 1540D | N13 E72 | 4146 | 04 20.1 | 4D | SB | 3 | C | 1537 | D | | |
| 0122 | HTPR | 14 | 1543 | 1546 | 1600 | S10 E32 | 4142 | 04 17.0 | 17 | SF | | C | 1546 | 20 | .2 | |
| | | | 14 | 1702 | | 2049 | No Flare Patrol | | | | | | | | | |
| 0123 | MANI | 15 | 0001E | 0002U | 0010 | N07 E80 | 4146 | 04 21.0 | 9D | SF | 1 | V | | | | |
| 0124 | CULG | 15 | 0132 | 0133 | 0144 | S09 E18 | 4146A | 04 16.4 | 12 | SN | | C | 0133 | 30 | .3 | |
| 0125 | | 15 | 0158 | 02019 | 0218 | S12 W90 | | 04 8.3 | 20 | IB | | | 63 | | AG | |
| | YUNN | 15 | 0158 | 0201 | 0214 | S13 W89 | | 04 8.4 | 16 | IN | | | 63 | | AG | |
| | MANI | 15 | 0200E | 0210 | 0221 | S12 W90 | | 04 8.3 | 21D | SB | 1 | V | | | | |
| 0126 | MANI | 15 | 0219E | 0219U | 0245 | N07 E80 | 4146 | 04 21.1 | 26D | SF | 1 | V | | | | |
| 0127 | HTPR | 15 | 1214 | 1222 | 1235 | S11 W42 | 4143 | 04 12.3 | 21 | SF | | C | 1222 | 10 | .1 | |
| | | 15 | 1646 | | 2043 | No Flare Patrol | | | | | | | | | | |
| | | 15 | 2154 | | 2214 | No Flare Patrol | | | | | | | | | | |
| 0128 | VORO | 16 | 0015 | 0018 | 0027 | N05 E64 | 4146 | 04 20.8 | 12 | IF | | C | 0018 | 108 | CDH | |
| | | 16 | 0401 | | 0419 | No Flare Patrol | | | | | | | | | | |
| 0129 | ABST | 16 | 0520 | 0523 | 0545D | S10 E02 | 4148A | 04 16.4 | 25D | SF | | P | 0523 | 174 | 1.7 | F |
| 0130 | ABST | 16 | 0522 | 0524 | 0545D | S10 E11 | 4149 | 04 17.0 | 23D | SF | | P | 0524 | 131 | 1.3 | D |
| 0131 | HTPR | 16 | 0700 | 0709 | 0713 | N03 E58 | 4146 | 04 20.6 | 13 | SF | | C | 0709 | 20 | .4 | |
| 0132 | HTPR | 16 | 0815 | 0818 | 0821 | N03 E58 | 4146 | 04 20.7 | 6 | SF | | C | 0818 | 20 | .4 | |
| 0133 | | 16 | 0910* | 0920* | 0946 | N04 E58 | 4146 | 04 20.7 | 36 | SF | | | 38 | .8 | E | |
| | HTPR | 16 | 0910 | 0920 | 0946 | N03 E56 | 4146 | 04 20.6 | 36 | SF | | | 30 | .5 | E | |
| | CATA | 16 | 0920 | 0930 | 0945 | N04 E61 | 4146 | 04 20.9 | 25 | S | 1 | C | 0920 | 45 | 1.0 | |
| | | 16 | 1151 | | 1215 | No Flare Patrol | | | | | | | | | | |
| | | 16 | 1517 | | 2114 | No Flare Patrol | | | | | | | | | | |
| 0134 | CULG | 17 | 0413E | 0414U | 0428 | S10 W09 | 4145 | 04 16.5 | 15D | SF | | P | 0414 | 40 | .4 | F |
| 0135 | KANZ | 17 | 0833 | 0837 | 0841 | S23 W28 | 4148 | 04 15.2 | 8 | SF | 2 | | | | L | |
| 0136 | KANZ | 17 | 0905 | 0909 | 0933 | S11 E06 | 4149 | 04 17.8 | 28 | SF | 1 | | | | | |
| 0137 | KANZ | 17 | 1123 | 1139 | 1147 | S29 W33 | 4148 | 04 14.9 | 24 | SF | 1 | | | | | |
| 0138 | KANZ | 17 | 1241 | 1245 | 1305 | S31 W37 | 4148 | 04 14.6 | 24 | SF | 1 | | | | | |
| 0139 | WEND | 17 | 1506 | 1508 | 1512 | S10 W67 | 4138 | 04 12.6 | 6 | SF | | C | 1508 | 56 | | |
| | | 17 | 1523 | | 2113 | No Flare Patrol | | | | | | | | | | |
| 0140 | MANI | 17 | 2328 | 2329 | 2405 | S10 W03 | 4149 | 04 17.7 | 37 | SF | C | .7 | 1 | V | | |
| | | 18 | 0206 | | 0212 | No Flare Patrol | | | | | | | | | | |
| 0141 | YUNN | 18 | 0320 | 0322 | 0330D | S30 W42 | 4148 | 04 14.8 | 100 | SN | | C | | 94 | 1.4 | |
| 0142 | YUNN | 18 | 0415 | 0418 | 0429 | S30 W42 | 4148 | 04 14.9 | 14 | SN | | C | | 79 | 1.2 | |
| 0143 | YUNN | 18 | 0525E | 0529U | 0542D | S28 W45 | 4148 | 04 14.7 | 17D | SN | | P | 0529 | 94 | 1.5 | |
| 0144 | ATHN | 18 | 0855E | 0857 | 1013 | N05 W20 | | 04 16.9 | 78D | SN | 2 | V | 0857 | 159 | 1.8 | |

46
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta # | Start Day (UT) | Max (UT) | End (UT) | NOAA/ USAF Lat | | | | Dur Mo Day | Imp (Min) | Obs Opt Xray | Time (UT) | Area Measurement | | | | | | |
|----------|----------|----------------------|-------------|-------------|----------------------|----------|--------|-----|---------------|--------------|-----------------|--------------|-------------------------------------|------------------|---------|-----|-------|------|---|
| | | | | | CMD | Region | Mo | Day | | | | | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | | | | |
| | 18 | 0941 | 0954 | | No Flare | Patrol | | | | | | | | | | | | | |
| | 18 | 1401 | 1530 | | No Flare | Patrol | | | | | | | | | | | | | |
| 0145 | KANZ | 18 | 1531E | 1531 | 1555 | S22 E57 | 4152 | 04 | 23.0 | 240 | SN | 3 | | | | | | | |
| | | 18 | 1603 | | 2208 | No Flare | Patrol | | | | | | | | | | | | |
| 0146 | VORO | 19 | 0000 | 0004 | 0024 | N21 E22 | | 04 | 20.7 | 24 | 1F | | C | 0004 | 215 | 2.3 | CE | | |
| | | 19 | 0026 | | 0042 | No Flare | Patrol | | | | | | | | | | | | |
| | | 19 | 0106 | | 0140 | No Flare | Patrol | | | | | | | | | | | | |
| | | 19 | 0152 | | 0156 | No Flare | Patrol | | | | | | | | | | | | |
| | | 19 | 0159 | | 0216 | No Flare | Patrol | | | | | | | | | | | | |
| | | 19 | 0318 | | 0340 | No Flare | Patrol | | | | | | | | | | | | |
| 0147 | ATHN | 19 | 0821 | 0823 | 0830 | S28 W58 | 4148 | 04 | 14.8 | 9 | SN | 3 | V | 0823 | 95 | 1.9 | | | |
| 0148 | ATHN | 19 | 0920 | 0922 | 0933 | S11 E77 | 4150 | 04 | 25.2 | 13 | SN | 3 | V | 0922 | 64 | | | | |
| 0149 | ATHN | 19 | 0948 | 0950 | 1002 | S28 W58 | 4148 | 04 | 14.9 | 14 | 1N | 3 | V | 0950 | 111 | 2.2 | | | |
| 0150 | HOLL | 19 | 1412 | 1412 | 1422 | S29 W60 | 4148 | 04 | 14.9 | 10 | SF | 2 | C | | 18 | | | | |
| 0151 | HOLL | 19 | 1450 | 1451 | 1455 | S30 W60 | 4148 | 04 | 14.9 | 5 | SF | 3 | C | | 16 | | | | |
| 0152 | HOLL | 19 | 1519 | 1520 | 1524 | S30 W61 | 4148 | 04 | 14.8 | 5 | SF | 3 | C | | 20 | | | | |
| 0153 | HOLL | 19 | 1545 | 1562 | 1637 | S31 W61 | 4148 | 04 | 14.8 | 52 | SF C | .8 | 3 | C | | 53 | | | |
| 0154 | HOLL | 19 | 1552E | 1554U | 1608 | S13 W57 | 4145 | 04 | 15.4 | 160 | SF | 3 | C | | 96 | | F | | |
| 0155 | | 19 | 1639 | 1642* | 1817 | S30 W62 | 4148 | 04 | 14.8 | 98 | SNC | .8 | | | 76 | | K | | |
| | HOLL | 19 | 1639 | 1642 | 1817 | S30 W62 | 4148 | 04 | 14.8 | 98 | SN | 3 | C | | 85 | | K | | |
| | HOLL | 19 | 1639 | 1749 | 1817 | S30 W62 | 4148 | 04 | 14.8 | 98 | SNC | .8 | 3 | C | | 66 | | K | |
| 0156 | | 19 | 1819 | 1824* | 1843 | S25 W62 | 4148 | 04 | 14.9 | 24 | SN C | 1.8 | | | 50 | | K | | |
| | HOLL | 19 | 1819 | 1824 | 1842 | S29 W62 | 4148 | 04 | 14.9 | 24 | SN | 3 | C | | 37 | | K | | |
| | HOLL | 19 | 1819 | 1835 | 1842 | S29 W62 | 4148 | 04 | 14.9 | 24 | SNC | 1.8 | 3 | C | | 64 | | K | |
| 0157 | HOLL | 19 | 1900 | 1905 | 1910 | S30 W62 | 4148 | 04 | 14.9 | 10 | SNC | .8 | 3 | C | | 24 | | | |
| 0158 | HOLL | 19 | 1931 | 1934 | 1939 | S30 W62 | 4148 | 04 | 14.9 | 8 | SN | | 3 | C | | 42 | | | |
| | | 19 | 2002 | | 2021 | No Flare | Patrol | | | | | | | | | | | | |
| 0159 | HOLL | 19 | 2022E | 2022U | 2026 | S30 W63 | 4148 | 04 | 14.9 | 40 | SF | | 3 | C | | 23 | | | |
| 0160 | | 19 | 2123 | 2127 | 2132 | S30 W66 | 4148 | 04 | 14.7 | 9 | 1F | | | | 74 | | EJ | | |
| | HOLL | 19 | 2123 | 2127 | 2130 | S30 W63 | 4148 | 04 | 14.9 | 7 | SF | | 3 | C | | 24 | | | |
| | VORO | 19 | 2125E | | 2134 | S30 W68 | 4148 | 04 | 14.5 | 90 | 1F | | | 2125 | | 125 | | EJ | |
| 0161 | | 19 | 21563 | 21581 | 2231 | S30 W66 | 4148 | 04 | 14.7 | 35 | 1F C | 1.2 | | | 64 | | EF JK | | |
| | VORO | 19 | 2156 | 2158 | 2252 | S30 W68 | 4148 | 04 | 14.6 | 56 | 1F | | C | 2158 | | 99 | | EJK | |
| | HOLL | 19 | 2159 | 2159 | 2210 | S29 W64 | 4148 | 04 | 14.9 | 11 | SF C | 1.2 | 3 | C | | 29 | | F | |
| 0162 | HOLL | 19 | 2236 | 2240 | 2243 | S30 W64 | 4148 | 04 | 14.9 | 7 | SF | | 3 | C | | 22 | | | |
| 0163 | | 19 | 23415 | 23464 | 2400 | N10 E21 | 4151 | 04 | 21.6 | 19 | SN | | | | 60 | | 1.1 | CDFG | |
| | VORO | 19 | 2341 | 2346 | 2359 | N10 E21 | 4151 | 04 | 21.6 | 18 | SN | | | | 99 | | 1.1 | CDG | |
| | HOLL | 19 | 2346 | 2350 | 2401 | N09 E21 | 4151 | 04 | 21.6 | 15 | SF | | 3 | C | | 21 | | F | |
| 0164 | | 20 | 00182 | 00231 | 0036 | S13 E72 | 4150A | 04 | 25.4 | 18 | 1F C | 2.2 | | | 94 | | 2.2 | CDF | |
| | VORO | 20 | 0018 | 0023 | 0034 | S13 E75 | 4150A | 04 | 25.7 | 16 | 1F | | | 0023 | | 90 | | CC | |
| | LEAR | 20 | 0019 | 0023U | 0037 | S13 E71 | 4150A | 04 | 25.4 | 18 | SF C | 2.2 | 3 | C | | 79 | | | |
| | HOLL | 20 | 0020 | 0024 | 0037 | S14 E72 | 4150A | 04 | 25.4 | 17 | SNC | 2.2 | 3 | C | | 110 | | F | |
| | MANI | 20 | 0022E | 0024 | 0037 | S13 E72 | 4150A | 04 | 25.4 | 150 | 1F | | 1 | V | | 95 | | 2.2 | F |
| 0165 | | 20 | 0618 | 06191 | 0648 | S13 E68 | 4150 | 04 | 25.4 | 30 | 1F C | 2.1 | | | | 66 | | | |
| | LEAR | 20 | 0618 | 0619 | 0648 | S13 E69 | 4150 | 04 | 25.5 | 30 | SF C | 2.1 | 3 | C | | 47 | | | |
| | CATA | 20 | 0620E | 0620 | 06200 | S13 E67 | 4150 | 04 | 25.3 | 300 | 1 | | 2 | P | 0620 | | 84 | | |

H - ALPHA SOLAR FLARES

47
Apr 83

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | Region | Dur Mo Day | (Min) | Imp | Obs | Time (UT) | Area Measurement | | Corr (Sq Deg) | Remarks | | | |
|----------|------|--------------|-------------|-------------|-------|----------------------|--------|---------------|-------|------|-----|--------------|------------------|------|------------------|---------|-----|-----|-----|
| | | | | | | | | | | | | | Opt | Xray | See | Type | | | |
| 0166 | 20 | 06455 | 0655* | 0748 | S29 | W66 | 4148 | 04 | 15.1 | 63 | SN | C | 2.2 | | | 47 | 1.4 | E | |
| | KANZ | 20 | 0644E | 0705 | 0705D | S28 | W61 | 4148 | 04 | 15.5 | 21D | SN | | 1 | | | | | |
| | CATA | 20 | 0645 | 0655 | 0725D | S29 | W68 | 4148 | 04 | 14.9 | 40D | S | 2 | P | 0655 | 56 | | | |
| | LEAR | 20 | 0650 | 0703 | 0748 | S30 | W66 | 4148 | 04 | 15.1 | 58 | SN | C | 2.2 | C | 26 | | | |
| | HTPR | 20 | 0716E | | 0724D | S30 | W70 | 4148 | 04 | 14.8 | 80 | SN | | | C | 0720 | 60 | 1.4 | E |
| 0167 | LEAR | 20 | 0755 | 0800 | 0814 | S11 | W37 | 4149 | 04 | 17.5 | 19 | SF | | 3 | C | | 30 | | U |
| 0168 | ATHN | 20 | 1222E | 1228 | 1259 | S24 | E32 | 4152 | 04 | 23.0 | 37D | S8 | | 3 | V | 1228 | 64 | .8 | |
| 0169 | HOLL | 20 | 1353E | 1355 | 1410 | S10 | E59 | 4150 | 04 | 25.0 | 17D | SF | | 3 | C | | 30 | | |
| 0170 | HOLL | 20 | 1726 | 1729 | 1818 | S13 | E63 | 4150 | 04 | 25.5 | 52 | SF | C | 2.7 | 3 | C | | 134 | F |
| | | 20 | 1955 | | 2052 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 | 2059 | | 2108 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 | 2122 | | 2214 | No Flare Patrol | | | | | | | | | | | | | |
| 0171 | MANI | 20 | 2319E | 2322 | 2401D | S28 | W80 | 4148 | 04 | 14.7 | 42D | SN | | 1 | V | | | | |
| 0172 | VORO | 21 | 0044 | 0047 | 0058 | S09 | E56 | 4150 | 04 | 25.2 | 14 | 1F | | | C | 0047 | 116 | 2.1 | CDJ |
| 0173 | HOLL | 21 | 0115E | 0116U | 0121 | N09 | W46 | | 04 | 17.6 | 60 | SF | | 2 | C | | 20 | | F |
| 0174 | ABST | 21 | 0448 | 0452 | 0500 | S10 | E51 | 4150 | 04 | 25.0 | 12 | SN | | | C | 0452 | 87 | 1.3 | DK |
| 0175 | | 21 | 05151 | 05179 | 0544 | S14 | E56 | 4150A | 04 | 25.4 | 29 | IN | | | | | 103 | 3.4 | E |
| | LEAR | 21 | 0515 | 0517 | 0538 | S13 | E57 | 4150A | 04 | 25.5 | 23 | SF | | 3 | C | | 32 | | |
| | ABST | 21 | 0516 | 0526 | 0550 | S14 | E56 | 4150A | 04 | 25.4 | 34 | IN | | | C | 0526 | 174 | 3.4 | E |
| 0176 | ABST | 21 | 0647 | 0649 | 0655 | N11 | E07 | 4151 | 04 | 21.8 | 8 | SN | | | C | 0649 | 174 | 1.9 | E |
| 0177 | ABST | 21 | 0652 | 0657 | 0713 | S10 | W90 | | 04 | 14.5 | 21 | IN | | | C | 0657 | 174 | | ADK |
| 0178 | RAMY | 21 | 1326 | 1328 | 1333 | S08 | E84 | 4154 | 04 | 27.8 | 7 | SF | | 3 | C | | 11 | | |
| | | 21 | 1648 | | 1654 | No Flare Patrol | | | | | | | | | | | | | |
| 0179 | | 21 | 1831 | 1832* | 1844 | S09 | E87 | 4154 | 04 | 28.3 | 13 | IN | C | 1.3 | | | 31 | | |
| | HOLL | 21 | 1831 | 1832 | 1844 | S10 | E87 | 4154 | 04 | 28.3 | 13 | SN | | 3 | C | | 31 | | |
| | PALE | 21 | 1858E | 1902 | 1925D | S08 | E87 | 4154 | 04 | 28.3 | 27D | IN | C | 1.3 | 3 | C | | | |
| 0180 | HOLL | 21 | 1844 | 1846 | 1906 | S13 | E52 | 4150A | 04 | 25.7 | 22 | SF | | | 3 | C | | 42 | F |
| 0181 | HOLL | 21 | 1933 | 1935 | 1950 | S10 | E84 | 4154 | 04 | 28.1 | 17 | SF | C | 1.1 | 3 | C | | 12 | F |
| 0182 | HOLL | 21 | 1956 | 1959 | 2005 | S10 | E85 | 4154 | 04 | 28.2 | 9 | SN | | 3 | C | | 23 | | F |
| 0183 | HOLL | 21 | 2011 | 2013 | 2025 | S10 | E84 | 4154 | 04 | 28.1 | 14 | SF | | 3 | C | | 8 | | |
| | | 21 | 2033 | | 2104 | No Flare Patrol | | | | | | | | | | | | | |
| 0184 | HOLL | 21 | 2042 | 2042 | 2047 | N08 | W17 | 4146 | 04 | 20.6 | 5 | SN | C | 2.2 | 3 | C | | 53 | F |
| | | 21 | 2216 | | 2241 | No Flare Patrol | | | | | | | | | | | | | |
| 0185 | HOLL | 21 | 2237 | 2238U | 2251D | N07 | W18 | 4146 | 04 | 20.6 | 14D | SF | | 2 | C | | 46 | | F |
| | | 21 | 2244 | | 2249 | No Flare Patrol | | | | | | | | | | | | | |
| 0186 | | 22 | 0003 | 0015 | 0042 | S19 | E89 | 4156 | 04 | 28.8 | 39 | N | | | | | | | A |
| | PEKG | 22 | 0003 | 0015 | 0046 | S18 | E90 | 4156 | 04 | 28.8 | 37 | N | | | C | 0015 | | | A |
| | YUNN | 22 | 0017E | 001U | 0045 | S20 | E88 | 4156 | 04 | 28.7 | 280 | | | | P | 0017 | | | A |
| 0187 | | 22 | 01037 | 0108* | 0120 | S11 | E45 | 4150 | 04 | 25.4 | 17 | SN | | | | | 71 | 1.0 | EF |
| | CULG | 22 | 0103 | 0105U | 01050 | S08 | E47 | 4150 | 04 | 25.6 | 20 | SN | | | P | 0105 | 80 | 1.2 | F |
| | YUNN | 22 | 0105 | 0108 | 0120 | S12 | E43 | 4150 | 04 | 25.3 | 15 | SN | | | C | | 79 | 1.1 | E |
| | PEKG | 22 | 0110 | 0120 | 0130D | S12 | E46 | 4150 | 04 | 25.5 | 200 | SN | | | P | 0120 | 55 | .8 | E |

48
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF CMD Region | OMP Mo Day | Dur (Min) | Imp Opt | X-ray See | Obs Type | Area Measurement | | | | |
|-------|----------|----------------|----------|-----------------|---------|----------------------|------------|-----------|----------|-----------|----------|------------------|-----------------------|---------------|---------|---|
| | | | | | | | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | |
| 0188 | YUNN | 22 0145 | 0154 | 0207 | S13 E47 | 4150A | 04 25.6 | 22 | SN | | C | 110 | 1.7 | | | |
| 0189 | YUNN | 22 0212E | 0215 | 0227 | S13 E47 | 4150A | 04 25.6 | 150 | SN | | P | 94 | 1.4 | | | |
| 0190 | 22 03052 | 03113 | 0335 | S24 E15 | 4152 | 04 23.3 | 30 | IN C | 1.8 | | | 210 | 2.6 | F | | |
| CULG | 22 0305 | 0308U | 0308D | S23 E16 | 4152 | 04 23.4 | 30 | SN | | | P | 0308 | 150 | 1.6 | F | |
| YUNN | 22 0305 | 0314 | 0343 | S25 E13 | 4152 | 04 23.1 | 38 | IN | | | C | 314 | 3.5 | F | | |
| LEAR | 22 0307 | 0311 | 0332 | S25 E15 | 4152 | 04 23.3 | 25 | SF C | 1.8 | 1 | C | 134 | | | | |
| PEKG | 22 0314E | 0314 | 0330 | S24 E15 | 4152 | 04 23.3 | 160 | IN C | 1.0 | | C | 0314 | 244 | 2.7 | F | |
| 0191 | HTPR | 22 0556E | | 0655 | N15 W07 | 4151 | 04 21.7 | 590 | SN | | C | 0620 | 80 | .8 | E | |
| 0192 | HTPR | 22 0556E | | 0652 | N08 W24 | 4146 | 04 20.4 | 560 | SF | | C | 0602 | 20 | .2 | | |
| 0193 | HTPR | 22 0556E | | 0640 | S10 W67 | 4149 | 04 17.2 | 440 | SF | | C | 0621 | 20 | .4 | | |
| 0194 | 22 0600 | 06264 | 0905 | S12 E35 | 4150 | 04 24.9 | 185 | SN | | | | 48 | .6 | | | |
| HTPR | 22 0600 | 0626 | 0905 | S11 E34 | 4150 | 04 24.8 | 185 | SN | | | C | 0626 | 40 | .5 | | |
| CATA | 22 0630E | 0630 | 0645D | S13 E36 | 4150 | 04 25.0 | 150 | S | | 2 | P | 0630 | 56 | .7 | | |
| 0195 | 22 0610E | 06146 | 0620D | N15 W08 | 4151 | 04 21.6 | 100 | SN | | | | 150 | 1.6 | E | | |
| ABST | 22 0610E | 0614 | 0620D | N15 W07 | 4151 | 04 21.7 | 100 | SN | | | P | 0614 | 131 | 1.4 | E | |
| CATA | 22 0615E | 0620 | 0620D | N15 W08 | 4151 | 04 21.6 | 50 | S | | 2 | P | 0620 | 169 | 1.9 | | |
| 0196 | 22 0610E | 0616# | 0645D | N08 W25 | 4146 | 04 20.4 | 350 | SN | | | | 72 | .8 | D | | |
| ABST | 22 0610E | 0616 | 0620D | N07 W25 | 4146 | 04 20.4 | 100 | SN | | | P | 0616 | 87 | 1.0 | D | |
| CATA | 22 0630E | 0630 | 0645D | N09 W25 | 4146 | 04 20.4 | 150 | S | | 2 | P | 0630 | 56 | .7 | | |
| 0197 | HTPR | 22 0811 | 0830 | 0950 | N08 W28 | 4146 | 04 20.2 | 99 | SF | | C | 0830 | 70 | .8 | E | |
| 0198 | PEKG | 22 0823 | 0826 | 0831 | S13 E35 | 4150 | 04 25.0 | 8 | SN | | C | 0826 | 29 | .4 | D | |
| 0199 | KHAR | 22 0907E | | 0920D | S09 E80 | 4154 | 04 28.4 | 130 | SF | | P | | | | D | |
| 0200 | HTPR | 22 1000 | 1007 | 1011 | S11 W70 | 4149 | 04 17.1 | 11 | SF | | C | 1007 | 20 | .4 | | |
| 0201 | 22 1034 | 10504 | 1108 | S10 E80 | 4154 | 04 28.4 | 34 | SN | | | | 30 | | D | | |
| HTPR | 22 1034 | 1054 | 1108 | S10 E80 | 4154 | 04 28.4 | 34 | SN | | | C | 1054 | 30 | | | |
| KHAR | 22 1043E | 1050 | 1103D | S09 E80 | 4154 | 04 28.4 | 200 | SN | | | P | 1050 | | | D | |
| 0202 | HTPR | 22 1129 | 1133 | 1141 | S10 E80 | 4154 | 04 28.5 | 12 | SN | | C | 1133 | 30 | | | |
| 0203 | HTPR | 22 1134 | 1149 | 1205 | S11 E31 | 4150 | 04 24.8 | 31 | SF | | C | 1149 | 20 | .2 | | |
| | 22 1210 | | 1217 | No Flare Patrol | | | | | | | | | | | | |
| | 22 1219 | | 1236 | No Flare Patrol | | | | | | | | | | | | |
| | 22 1258 | | 1259 | No Flare Patrol | | | | | | | | | | | | |
| 0204 | 22 13317 | 1339 | 1356 | S12 E34 | 4150 | 04 25.1 | 25 | SF | | | | | 19 | .2 | F | |
| HTPR | 22 1331 | | 1342D | S11 E31 | 4150 | 04 24.9 | 110 | SF | | | C | 1341 | 20 | .2 | F | |
| HOLL | 22 1338 | 1339 | 1356 | S12 E37 | 4150 | 04 25.3 | 18 | SF | | 2 | C | | 18 | | F | |
| 0205 | KANZ | 22 1602 | 1602 | 1623 | S12 E30 | 4150 | 04 24.9 | 21 | SN | | 3 | | | | | |
| 0206 | KANZ | 22 1705 | | 1705D | S11 E74 | 4154 | 04 28.3 | 210 | SF | | 3 | | | | | |
| 0207 | KANZ | 22 1705 | | 1705D | S12 E29 | 4150 | 04 24.9 | 210 | SF | | 3 | | | | | |
| 0208 | HOLL | 22 1734 | 1734 | 1740 | S11 E72 | 4154 | 04 28.1 | 6 | SF C 1.3 | 3 | C | | 14 | | F | |
| 0209 | HOLL | 22 2236 | 2240 | 2320 | S13 E33 | 4150 | 04 25.4 | 44 | SF | | 3 | C | | 82 | | F |
| 0210 | HOLL | 22 2243 | 2244 | 2251 | S21 E78 | 4156 | 04 28.9 | 8 | SF C 1.4 | 3 | C | | 34 | | | |
| 0211 | HOLL | 23 0124 | 0127U | 0135D | S18 E59 | | 04 27.5 | 110 | SN | | 2 | C | | 110 | | F |
| 0212 | LEAR | 23 0516 | 0517 | 0555D | S10 E22 | 4150 | 04 24.9 | 390 | SF C 1.9 | 3 | C | | 49 | | F | |

H - ALPHA SOLAR FLARES

49
Apr 85

APRIL 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF | OMP | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | | | | |
|-------|------|----------------|----------|----------|-----------------|-----------|------|-----------|-----|----------|-----------|------------------|------|------|-----|------|-----|------|-------------------------|----------|------|
| | | | | | | | | | | | | Region | Mo | Day | Opt | Xray | See | Type | (10 ⁻⁶ Disk) | (Sq Deg) | Corr |
| 0213 | LEAR | 23 0658 | 06598 | 0716 | S13 | E27 | 4150 | 04 25.3 | 18 | SN C 2.3 | | | | | | | | 121 | 1.8 | F | |
| | | 23 0658 | 0659 | 0722 | S13 | E25 | 4150 | 04 25.2 | 24 | SF C 2.3 | 3 | C | | | | | | 49 | | F | |
| | PEKG | 23 0700E | 0706 | 0710D | S13 | E29 | 4150 | 04 25.5 | 100 | IN | | | | | | | | 218 | 2.6 | F | |
| | ATHN | 23 0702E | 0707 | 0710 | S13 | E26 | 4150 | 04 25.2 | 80 | SN | 3 | V | 0706 | 0707 | | | | 95 | 1.1 | | |
| 0214 | KANZ | 23 0730 | 0730 | 0734 | S17 | E77 | 4156 | 04 29.2 | 4 | SF | | 2 | | | | | | | | | |
| 0215 | KANZ | 23 08023 | 08091 | 0819 | S10 | E67 | 4154 | 04 28.4 | 17 | SF | | | | | | | | 20 | | F | |
| | LEAR | 23 0802 | 0810 | 0819 | S10 | E67 | 4154 | 04 28.4 | 17 | SF | 3 | C | | | | | | 20 | | F | |
| 0216 | KHAR | 23 0930E | | 0943D | S10 | E53 | | 04 27.4 | 130 | SF | | | | | | | | | | D | |
| 0217 | CATA | 23 0940 | 0940* | 1007D | S30 | E76 | | 04 29.4 | 27D | 1F | | | | | | | | 152 | | E | |
| | | 23 0940 | 0940 | 0955D | S30 | E74 | | 04 29.2 | 15D | 2 | | | | | | | | 253 | | | |
| | KHAR | 23 0953E | 0953 | 1007D | S30 | E78 | | 04 29.5 | 14D | SF | 2 | P | 0940 | | | | | 50 | | E | |
| 0218 | KANZ | 23 1312 | 1320 | 1324 | S20 | E73 | 4156 | 04 29.1 | 12 | SF | | 3 | | | | | | | | | |
| 0219 | KANZ | 23 1428E | 1428 | 1435 | S20 | E75 | 4156 | 04 29.3 | 7D | SN | | 3 | | | | | | | | | |
| 0220 | RAMY | 23 1428 | 1430 | 1433 | S17 | E58 | 4156 | 04 28.0 | 5 | SN | | 3 | C | | | | | 41 | | | |
| 0221 | KANZ | 23 1506 | 1506 | 1514 | S11 | E17 | 4150 | 04 24.9 | 8 | SF | | 3 | | | | | | | | | |
| 0222 | HOLL | 24 0038* | 0044* | 0107 | S16 | E65 | 4156 | 04 28.9 | 29 | SF C 2.1 | | | | | | | | 57 | | FK | |
| | HOLL | 24 0038 | 0044 | 0106 | S16 | E63 | 4156 | 04 28.8 | 28 | SF | 3 | C | | | | | | 44 | | K | |
| | HOLL | 24 0038 | 0057 | 0106 | S16 | E63 | 4156 | 04 28.8 | 28 | SN C 2.1 | 3 | C | | | | | | 100 | | FK | |
| | LEAR | 24 0056 | 0057 | 0109 | S17 | E68 | 4156 | 04 29.2 | 13 | SF C 2.1 | 3 | C | | | | | | 28 | | | |
| 0223 | VORO | 24 01112 | 01152 | 0124 | N07 | W48 | 4146 | 04 20.4 | 13 | SF | | | | | | | | 72 | 1.4 | CEGI | |
| | | 24 0111 | 0115 | 0122 | N06 | W49 | 4146 | 04 20.4 | 11 | 1F | | | | | | | | 134 | 2.1 | CEI | |
| | YUNN | 24 0112 | 0115 | 0121 | N07 | W49 | 4146 | 04 20.4 | 9 | SN | | | | | | | | 47 | .8 | EG | |
| | LEAR | 24 0113 | 0117 | 0128 | N08 | W47 | 4146 | 04 20.5 | 15 | SF | 3 | C | | | | | | 35 | | | |
| 0224 | MITK | 24 01253 | 0128* | 0248 | S15 | E69 | 4156 | 04 29.3 | 83 | IN C 4.1 | | | | | | | | 112 | | EFK | |
| | YUNN | 24 0125 | 0128 | 0220 | S13 | E68 | 4156 | 04 29.2 | 55 | 1F | | | | | | | | 190 | | E | |
| | LEAR | 24 0126 | 0129 | 0411 | S15 | E70 | 4156 | 04 29.3 | 21 | 1B | | | | | | | | 126 | | | |
| | LEAR | 24 0126 | 0323 | 0411 | S15 | E70 | 4156 | 04 29.3 | 165 | SF | 3 | C | | | | | | 44 | | K | |
| | PURP | 24 0128 | 0147U | 0210 | S17 | E69 | 4156 | 04 29.3 | 42 | 1B | | | | | | | | 56 | | FK | |
| | PEKG | 24 0145E | 0156 | 0210 | S15 | E68 | 4156 | 04 29.2 | 25D | SN | | | | | | | | 158 | | | |
| | | | | | | | | | | | | | | | | | | 101 | | F | |
| 0225 | LEAR | 24 0624 | 0625 | 0629 | S13 | E15 | 4150 | 04 25.4 | 5 | SF | | 3 | C | | | | | 41 | | | |
| | | 24 0808 | | 0810 | No Flare Patrol | | | | | | | | | | | | | | | | |
| 0226 | ABST | 24 1204E | 1205 | 1214D | N14 | E53 | 4159 | 04 28.5 | 100 | SN | | | | | | | | 87 | 1.6 | D | |
| 0227 | ABST | 24 1204E | 1206 | 1214D | N18 | E36 | 4155 | 04 27.2 | 100 | SN | | | | | | | | 87 | 1.3 | D | |
| 0228 | ABST | 24 1204E | 1206 | 1214D | S16 | E65 | 4156 | 04 29.4 | 100 | SF | | | | | | | | 87 | | | |
| 0229 | ABST | 24 1204E | 1206 | 1214D | S11 | E55 | 4154 | 04 28.6 | 100 | SF | | | | | | | | 87 | 1.5 | D | |
| 0230 | ABST | 24 1204E | 1205 | 1214D | S13 | E12 | 4150 | 04 25.4 | 100 | SN | | | | | | | | 174 | 1.9 | E | |
| 0231 | RAMY | 24 1232 | 1232 | 1240 | N04 | W53 | 4146 | 04 20.6 | 8 | SN | | 3 | C | | | | | 28 | | | |
| 0232 | KANZ | 24 1307E | 1307 | 1316 | S13 | E10 | 4150 | 04 25.3 | 90 | SN | | 3 | | | | | | | | L | |
| 0233 | HOLL | 24 1508 | 1509 | 1534 | S12 | E09 | 4150 | 04 25.3 | 26 | SF | | 3 | C | | | | | 54 | | F | |
| 0234 | RAMY | 24 15141 | 1515 | 1521 | S20 | E56 | 4156 | 04 28.9 | 7 | SN C 1.2 | | | | | | | | 33 | | | |
| | HOLL | 24 1514 | 1515 | 1521 | S21 | E58 | 4156 | 04 29.1 | 7 | SN C 1.2 | 3 | C | | | | | | 31 | | | |
| | HOLL | 24 1515 | 1515 | 1521 | S20 | E55 | 4156 | 04 28.8 | 6 | SN C 1.2 | 3 | C | | | | | | 35 | | | |
| 0235 | HOLL | 24 1553 | 1555* | 1636 | S17 | E60 | 4156 | 04 29.2 | 43 | SF | | | | | | | | 46 | | FK | |
| | HOLL | 24 1553 | 1555 | 1636 | S17 | E60 | 4156 | 04 29.2 | 43 | SF | 3 | C | | | | | | 12 | | K | |
| | HOLL | 24 1553 | 1607 | 1636 | S17 | E60 | 4156 | 04 29.2 | 43 | SF | 3 | C | | | | | | 79 | | FK | |

50
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/ USAF | | | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | |
|----------|------|--------------|-------------|-------------|---------------|-----|--------|-------|-----|------|--------------|-----|-----|--------------|-------------------------|----------------------|------------------|
| | | | | | Lat | CMD | Region | Mo | Day | Opt | | | | | (10 ⁻⁶ Disk) | Apparent (Sq Deg) | Corr (Sq Deg) |
| 0236 | HOLL | 24 | 1748 | 1750 | 1755 | S19 | E54 | 4156 | 04 | 28.9 | 7 | SF | 3 | C | | 27 | |
| 0237 | | 24 | 18091 | 1810* | 1825 | S15 | E57 | 4156 | 04 | 29.1 | 16 | SF | | | | 30 | K |
| | HOLL | 24 | 1809 | 1810 | 1818 | S16 | E57 | 4156 | 04 | 29.1 | 9 | SF | 3 | C | | 51 | |
| | RAMY | 24 | 1810 | 1811 | 1828 | S15 | E57 | 4156 | 04 | 29.1 | 18 | SF | 3 | C | | 21 | K |
| | RAMY | 24 | 1810 | 1822 | 1828 | S15 | E57 | 4156 | 04 | 29.1 | 18 | SF | 3 | C | | 17 | K |
| 0238 | RAMY | 24 | 1858 | 1902 | 1908 | S20 | E53 | 4156 | 04 | 28.8 | 10 | SF | 3 | C | | 27 | |
| 0239 | | 24 | 1912 | 1912 | 1934 | S08 | E46 | 4154 | 04 | 28.2 | 22 | SN | C | 1.2 | | 91 | |
| | RAMY | 24 | 1912 | 1912 | 1932 | S10 | E47 | 4154 | 04 | 28.3 | 20 | SN | C | 1.2 | 3 | 98 | |
| | HOLL | 24 | 1912 | 1912 | 1936 | S06 | E45 | 4154 | 04 | 28.2 | 24 | SN | C | 1.2 | 3 | 84 | |
| 0240 | | 24 | 19212 | 1924 | 1930 | S20 | E56 | 4156 | 04 | 29.1 | 9 | SF | C | 1.2 | | 51 | |
| | RAMY | 24 | 1921 | 1924 | 1929 | S19 | E53 | 4156 | 04 | 28.8 | 8 | SF | C | 1.2 | 3 | 57 | |
| | HOLL | 24 | 1923 | 1924 | 1931 | S21 | E59 | 4156 | 04 | 29.3 | 8 | SF | C | 1.2 | 3 | 45 | |
| 0241 | | 24 | 20412 | 20441 | 2052 | S12 | E07 | 4150 | 04 | 25.4 | 11 | SF | C | 1.1 | | 42 | F |
| | HOLL | 24 | 2041 | 2044 | 2050 | S12 | E07 | 4150 | 04 | 25.4 | 9 | SF | C | 1.1 | 3 | 35 | F |
| | RAMY | 24 | 2043 | 2045 | 2054 | S11 | E07 | 4150 | 04 | 25.4 | 11 | SF | C | 1.1 | 3 | 50 | |
| 0242 | HOLL | 24 | 2051 | 2052 | 2054 | S20 | E53 | 4156 | 04 | 28.9 | 3 | SN | 3 | C | | 40 | |
| 0243 | HOLL | 24 | 2105 | 2105 | 2110 | S05 | E75 | 4157 | 04 | 30.5 | 5 | SF | 3 | C | | 11 | |
| 0244 | | 24 | 2107 | 21071 | 2121 | S18 | E56 | 4156 | 04 | 29.1 | 14 | SN | C | 1.7 | | 40 | F |
| | RAMY | 24 | 2107 | 2107 | 2127 | S18 | E56 | 4156 | 04 | 29.1 | 20 | SF | C | 1.7 | 3 | 27 | |
| | HOLL | 24 | 2107 | 2108 | 2115 | S17 | E56 | 4156 | 04 | 29.1 | 8 | SN | C | 1.7 | 3 | 52 | F |
| 0245 | HOLL | 24 | 2109 | 2109 | 2123 | S12 | E46 | 4154 | 04 | 28.3 | 14 | SF | 3 | C | | 19 | |
| 0246 | HOLL | 24 | 2254 | 2259 | 2304 | S17 | E52 | 4156 | 04 | 28.9 | 10 | SF | 3 | C | | 15 | |
| 0247 | HOLL | 25 | 0028 | 0032 | 0036 | S17 | E54 | 4156 | 04 | 29.1 | 8 | SF | 3 | C | | 17 | F |
| 0248 | LEAR | 25 | 0204 | 0209 | 0219 | S15 | E52 | 4156 | 04 | 29.0 | 15 | SF | 3 | C | | 22 | F |
| 0249 | | 25 | 03392 | 0342 | 0347 | S15 | E52 | 4156 | 04 | 29.1 | 8 | SN | | | | 32 | .4 |
| | CULG | 25 | 0339 | 0342 | 0347 | S14 | E52 | 4156 | 04 | 29.1 | 8 | SN | | | | 30 | .4 |
| | LEAR | 25 | 0341 | 0342 | 0347 | S16 | E52 | 4156 | 04 | 29.1 | 6 | SN | 3 | C | 0342 | 35 | |
| 0250 | | 25 | 03452 | 03507 | 0422 | S10 | W02 | 4150 | 04 | 25.0 | 37 | SN | | | | 94 | 1.1 |
| | CULG | 25 | 0345 | 0350 | 0411 | S09 | W03 | 4150 | 04 | 24.9 | 26 | SN | | | | 50 | .5 |
| | LEAR | 25 | 0347 | 0350 | 0428 | S12 | E02 | 4150 | 04 | 25.3 | 41 | SN | 3 | C | 0350 | 59 | |
| | MITK | 25 | 0347 | 0353 | 0418 | S09 | W03 | 4150 | 04 | 24.9 | 31 | SN | | | 0353 | | E |
| | ABST | 25 | 0357E | 0357 | 0430 | S10 | W04 | 4150 | 04 | 24.9 | 330 | SN | | | 0357 | 174 | F |
| 0251 | CULG | 25 | 0410 | 0412 | 0416 | S12 | W03 | 4150 | 04 | 24.9 | 6 | SF | | | 0412 | 40 | .4 |
| 0252 | | 25 | 04244 | 04301 | 0441 | S16 | E50 | 4156 | 04 | 29.0 | 17 | SN | | | | 60 | 1.4 |
| | ABST | 25 | 0424 | 0431 | 0445 | S16 | E50 | 4156 | 04 | 29.0 | 21 | SN | 3 | C | 0431 | 87 | D |
| | LEAR | 25 | 0428 | 0430 | 0437 | S16 | E51 | 4156 | 04 | 29.0 | 9 | SN | | | | 32 | |
| 0253 | | 25 | 04331 | 04365 | 0508 | S04 | E71 | 4157 | 04 | 30.5 | 35 | SN | C | 6.3 | | 59 | EF |
| | LEAR | 25 | 0433 | 0441 | 0518 | S04 | E68 | 4157 | 04 | 30.3 | 45 | SN | C | 6.3 | 3 | 64 | F |
| | ABST | 25 | 0434 | 0436 | 0506 | S04 | E74 | 4157 | 04 | 30.7 | 32 | IN | | | 0436 | 87 | E |
| | PURP | 25 | 0439E | 04521 | 0459 | S04 | E71 | 4157 | 04 | 30.5 | 200 | SB | | | 0452 | 55 | E |
| 0254 | | 25 | 0604* | 0606* | 0656 | S12 | E42 | 4154 | 04 | 28.4 | 52 | SN | | | | 128 | 1.7 |
| | ABST | 25 | 0604 | 0606 | 0700 | S12 | E41 | 4154 | 04 | 28.3 | 56 | IN | | | 0606 | 174 | E |
| | PURP | 25 | 0614 | 0638 | 0654 | S11 | E41 | 4154 | 04 | 28.3 | 40 | SB | 3 | C | 0638 | 83 | 1.1 |
| | KANZ | 25 | 0638E | 0638 | 0654 | S13 | E44 | 4154 | 04 | 28.6 | 16D | S | | | | | |
| 0255 | | 25 | 06425 | 06462 | 0657 | S15 | W04 | 4150A | 04 | 25.0 | 15 | SN | | | | 87 | .7 |
| | KANZ | 25 | 0642 | 0646 | 0654 | S15 | W03 | 4150A | 04 | 25.0 | 12 | SF | 3 | C | 0648 | 87 | DV |
| | ABST | 25 | 0647 | 0648 | 0700 | S15 | W04 | 4150A | 04 | 25.0 | 13 | SN | | | | 87 | .9 |
| 0256 | | 25 | 0658* | 0708* | 0744 | S16 | E48 | 4156 | 04 | 28.9 | 46 | SN | C | 2.9 | | 163 | 2.6 |
| | KANZ | 25 | 0658 | 0718 | 0801 | S15 | E48 | 4156 | 04 | 28. | 63 | SB | 3 | C | 0708 | 131 | DEF |
| | ABST | 25 | 0704 | 0708 | 07100 | S15 | E50 | 4156 | 04 | 29.1 | 60 | SN | | | | 131 | 1.9 |
| | LEAR | 25 | 0713 | 0722 | 0757 | S15 | E49 | 4156 | 04 | 29. | 44 | SN | C | 2.9 | 0718 | 131 | F |
| | WEND | 25 | 0714 | 0718 | 0727 | S17 | E51 | 4156 | 04 | 29.2 | 13 | SN | C | 2.9 | | 94 | 1.6 |
| | YUNN | 25 | 0715E | 0717 | 0742 | S17 | E48 | 4156 | 04 | 28.9 | 270 | SN | | | 0718 | 94 | 1.5 |
| | CATA | 25 | 0715 | 0720 | 07300 | S17 | E47 | 4156 | 04 | 28.9 | 150 | 1 | 1 | P | 0720 | 169 | 2.6 |
| | MITK | 25 | 0716 | 0716 | 0727 | S16 | E46 | 4156 | 04 | 28.8 | 11 | IN | | | 0719 | 210 | E |
| | PURP | 25 | 0719 | 0722 | 07250 | S17 | E48 | 4156 | 04 | 28.9 | 60 | IB | | | 0722 | 158 | 3.2 |
| | ISTA | 25 | 0720 | | 0736 | S16 | E40 | 4156 | 04 | 28.3 | 16 | SN | | | | | |
| | BUCA | 25 | 0720E | | 0800 | S16 | E52 | 4156 | 04 | 29.2 | 400 | IN | 3 | C | 0725 | 161 | 2.6 |
| | ATHN | 25 | 0720E | 0722 | 07250 | S18 | E49 | 4156 | 04 | 29.0 | 50 | IB | 1 | V | 0722 | 318 | 4.8 |
| | KHAR | 25 | 0726E | | 07420 | S15 | E47 | 4156 | 04 | 28.9 | 160 | SF | | | 0726 | | D |

H - ALPHA SOLAR FLARES

51
Apr 83

APRIL 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF CMD | Region | OMP Mo Day | Dur (Min) | Imp Opt | Xray | See | Area Measurement | | | |
|-------|------|----------------|----------|----------|-----------------|---------------|--------|------------|-----------|---------|-------|-----|------------------|-----------|-----------------------|---------------|
| | | | | | | | | | | | | | Obs | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) |
| 0257 | KANZ | 25 0801 | 0805 | 0809 | N14 | E40 | 4159 | 04 28.3 | 8 | SF | | 3 | | | | |
| 0258 | KANZ | 25 0828 | 0832 | 0848 | N14 | E40 | 4159 | 04 28.4 | 20 | SF | | 3 | | | | |
| 0259 | KHAR | 25 0935E | 0936 | 0945D | S17 | E49 | 4156 | 04 29.1 | 100 | SF | | V | 0936 | | | D |
| 0260 | KAND | 25 1045 | 1104 | 1110 | S13 | E49 | 4154 | 04 29.1 | 25 | SN | | C | | 29 | .5 | D |
| 0261 | KANZ | 25 1144 | 1148 | 1156 | S16 | E48 | 4156 | 04 29.1 | 12 | SF | | 2 | | | | |
| 0262 | | 25 13113 | 13128 | 1322 | S16 | E44 | 4156 | 04 28.9 | 11 | SN | C 1.2 | | | 60 | .8 | DEF |
| | KAND | 25 1311 | 1312 | 1316 | S18 | E43 | 4156 | 04 28.8 | 5 | SF | C 1.2 | | C | 21 | .3 | D |
| | KANZ | 25 1313E | 1313 | 1323 | S16 | E43 | 4156 | 04 28.8 | 100 | SN | | 2 | | | | |
| | RAMY | 25 1314 | 1314 | 1320D | S16 | E45 | 4156 | 04 29.0 | 60 | SB | C 1.2 | 3 | C | 78 | | FE |
| | ATHN | 25 1314 | 1320 | 1327 | S16 | E44 | 4156 | 04 28.9 | 13 | SN | | 3 | V | 1320 | 80 | 1.2 |
| 0263 | | 25 1533 | 1533 | 1537 | S16 | E42 | 4156 | 04 28.8 | 4 | SN | | | | 35 | | |
| | HOLL | 25 1533 | 1533 | 1536 | S16 | E42 | 4156 | 04 28.8 | 3 | SF | | 3 | C | | 35 | |
| | KANZ | 25 1533 | 1533 | 1538 | S15 | E42 | 4156 | 04 28.8 | 5 | SN | | 3 | | | | |
| 0264 | | 25 1541* | 16126 | 1640 | S16 | E46 | 4156 | 04 29.1 | 59 | SF | | | | 62 | | |
| | RAMY | 25 1541 | 1618 | 1639 | S16 | E46 | 4156 | 04 29.1 | 58 | SF | | 3 | C | 98 | | |
| | HOLL | 25 1611 | 1612 | 1641 | S17 | E47 | 4156 | 04 29.2 | 30 | SF | | 3 | C | 26 | | FH |
| 0265 | | 25 16151 | 16162 | 1623 | S12 | E39 | 4154 | 04 28.6 | 8 | SN | C 1.7 | | | 74 | | |
| | HOLL | 25 1615 | 1616 | 1623 | S13 | E39 | 4154 | 04 28.6 | 8 | SF | C 1.7 | 3 | C | 86 | | |
| | RAMY | 25 1616 | 1618 | 1623 | S12 | E39 | 4154 | 04 28.6 | 7 | SN | C 1.7 | 3 | C | 63 | | |
| 0266 | HOLL | 25 1735 | 1736 | 1740 | S15 | E43 | 4156 | 04 29.0 | 5 | SF | | 3 | C | 21 | | |
| 0267 | HOLL | 25 1941 | 1947 | 1958 | N13 | W57 | 4151 | 04 21.5 | 17 | SF | | 3 | C | 20 | | |
| 0268 | HOLL | 25 2100 | 2101 | 2117 | S12 | W04 | 4150 | 04 25.6 | 17 | SF | | 3 | C | 31 | | |
| 0269 | HOLL | 25 2116 | 2121 | 2124 | S18 | E43 | 4156 | 04 29.2 | 8 | SF | | 3 | C | 23 | | |
| 0270 | | 25 2140 | 2142 | 2210 | S17 | E44 | 4156 | 04 29.2 | 30 | SB | C 2.2 | | | 78 | 1.3 | DI |
| | HOLL | 25 2140 | 2142 | 2214 | S17 | E43 | 4156 | 04 29.2 | 34 | SB | C 2.2 | 3 | C | 66 | | |
| | VORO | 25 2142E | | 2205 | S17 | E46 | 4156 | 04 29.4 | 230 | SN | | C | 2142 | 90 | 1.3 | DI |
| | | 26 0008 | | 0010 | No Flare Patrol | | | | | | | | | | | |
| 0271 | | 26 0043 | 0045 | 0056 | S04 | E59 | 4157 | 04 30.4 | 13 | SF | C 1.2 | | | 54 | .9 | |
| | MANI | 26 0043 | 0045 | 0055 | S03 | E59 | 4157 | 04 30.4 | 12 | SF | C 1.2 | 1 | V | 50 | .9 | |
| | HOLL | 26 0047E | 0047U | 0057 | S04 | E59 | 4157 | 04 30.4 | 10C | SF | | 3 | C | 58 | | |
| 0272 | PURP | 26 0118 | 0135 | 0145 | S16 | E39 | 4156 | 04 29.0 | 27 | SB | | C | 0135 | 48 | .6 | E |
| 0273 | | 26 0305* | 03126 | 0326 | S16 | E39 | 4156 | 04 29.1 | 21 | SB | | | | 112 | 1.2 | EF |
| | LEAR | 26 0305 | 0312 | 03330 | S15 | E38 | 4156 | 04 29.0 | 28D | SB | | 3 | C | 147 | | F |
| | PURP | 26 0312E | 0313 | 0326 | S16 | E38 | 4156 | 04 29.0 | 14D | SB | | C | 0313 | 62 | .8 | E |
| | YUNN | 26 0317 | 0318 | 0327 | S16 | E41 | 4156 | 04 29.2 | 10 | SN | | C | | 126 | 1.7 | |
| 0274 | ABST | 26 0508 | 0509 | 0523 | S14 | E33 | 4154 | 04 28.7 | 15 | SN | | C | 0509 | 87 | 1.0 | D |
| 0275 | ABST | 26 0512 | 0516 | 0529 | S03 | E57 | 4157 | 04 30.5 | 17 | SF | | C | 0516 | 87 | 1.6 | D |
| 0276 | | 26 05322 | 05332 | 0542 | S14 | W16 | 4150A | 04 25.0 | 10 | SF | | | | 47 | .8 | D |
| | LEAR | 26 0532 | 0533 | 0545 | S14 | W16 | 4150A | 04 25.0 | 13 | SF | | 3 | C | 24 | | |
| | ABST | 26 0534 | 0535 | 0540 | S14 | W17 | 4150A | 04 24.9 | 6 | SF | | C | 0535 | 70 | .8 | D |
| 0277 | | 26 07001 | 07012 | 0714 | N10 | W63 | 4151 | 04 21.5 | 14 | SF | C 1.4 | | | 38 | | |
| | LEAR | 26 0700 | 0703 | 0716 | N11 | W64 | 4151 | 04 21.5 | 16 | SF | C 1.4 | 3 | C | 38 | | |
| | KANZ | 26 0701 | 0701 | 0711 | N10 | W62 | 4151 | 04 21.6 | 10 | SF | | 3 | | | | |
| 0278 | | 26 07117 | 07167 | 0730 | S14 | W17 | 4150A | 04 25.0 | 19 | SN | | | | 29 | .3 | D |
| | KANZ | 26 0711 | 0716 | 0716D | S14 | W17 | 4150A | 04 25.0 | 5D | SF | | 3 | | | | |
| | LEAR | 26 0714 | 0716 | 0732 | S14 | W17 | 4150A | 04 25.0 | 18 | SN | | 3 | C | 28 | | |
| | ATHN | 26 0714 | 0718 | 0733 | S12 | W17 | 4150A | 04 25.0 | 19 | SN | | 4 | V | 0718 | 32 | .3 |
| | PURP | 26 0718 | 0723 | 0726 | S14 | W17 | 4150A | 04 25.0 | 8 | SN | | C | 0723 | 28 | .3 | D |

52
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF | | | Dur (Min) | Imp Opt | Obs Xray | Time (UT) | Area Measurement | | | |
|-------|------|-----|------------|----------|----------|------|-----------|--------|--------|-----------|---------|----------|-----------|--------------------------------|----------|------|--------|
| | | | | | | | CMD | Region | Mo Day | | | | | 10 ⁻⁶ Disk (Sq Deg) | Apparent | Corr | |
| 0279 | KANZ | 26 | 0753 | 0757 | 0806 | S17 | E38 | 4156 | 04 | 29.2 | 13 | SF | | | 27 | | |
| | | 26 | 0753 | 0758 | 0808 | S17 | E38 | 4156 | 04 | 29.2 | 15 | SF | 3 | | | | |
| | LEAR | 26 | 0756 | 0757 | 0804 | S17 | E37 | 4156 | 04 | 29.1 | 8 | SF | 3 | C | | 27 | |
| 0280 | KANZ | 26 | 0803 | 0812* | 0848 | S10 | W18 | 4150 | 04 | 25.0 | 45 | 1B | C 3.0 | | 181 | 1.8 | EFH |
| | | 26 | 0803 | 0818 | 0851 | S10 | W18 | 4150 | 04 | 25.0 | 48 | 1B | 3 | | | | |
| | LEAR | 26 | 0808 | 0814 | 0856 | S09 | W18 | 4150 | 04 | 25.0 | 48 | 1B | C 3.0 | 3 | C | 240 | FE |
| | KHAR | 26 | 0811 | 0812 | 0840 | S09 | W20 | 4150 | 04 | 24.8 | 290 | 1N | | P | 0819 | 350 | 3.7 EH |
| | ATHN | 26 | 0812 | 0816 | 0845 | S12 | W17 | 4150 | 04 | 25.1 | 33 | SB | 4 | V | 0816 | 80 | .9 |
| | WEND | 26 | 0812 | 0824 | 0845 | S08 | W18 | 4150 | 04 | 25.0 | 33 | SN | | C | 0824 | 88 | 1.0 |
| | MANI | 26 | 0814E | 0815 | 0854 | S08 | W17 | 4150 | 04 | 25.1 | 400 | 1B | 1 | V | | 220 | 2.4 F |
| | PURP | 26 | 0821 | 0823U | 0837 | S12 | W18 | 4150 | 04 | 25.0 | 16 | SN | | C | 0823 | 124 | 1.3 |
| | CATA | 26 | 0830E | 0830 | 0830D | S09 | W20 | 4150 | 04 | 24.8 | 160 | S | 2 | P | 0830 | 169 | 1.8 |
| | | 26 | 1030 | | | 1104 | | | | | | | | | | | |
| | | 26 | 1116 | | | 1123 | | | | | | | | | | | |
| 0281 | RAMY | 26 | 1142 | 1142 | 1202 | S17 | E33 | 4156 | 04 | 29.0 | 20 | SN | 3 | C | | 23 | |
| 0282 | RAMY | 26 | 1246 | 1248 | 1301 | S12 | W17 | 4150 | 04 | 25.2 | 15 | SF | 3 | C | | 77 | |
| 0283 | | 26 | 13132 | 1315 | 1330 | S16 | E32 | 4156 | 04 | 29.0 | 17 | SF | | | | 34 | |
| | RAMY | 26 | 1313 | 1315 | 1336 | S16 | E33 | 4156 | 04 | 29.0 | 23 | SF | 3 | C | | 49 | |
| | HOLL | 26 | 1315 | 1315 | 1324 | S15 | E32 | 4156 | 04 | 29.0 | 9 | SF | 3 | C | | 18 | F |
| 0284 | | 26 | 1501 | 1503 | 1512 | S14 | W17 | 4150 | 04 | 25.3 | 11 | SN C 1.2 | | | | 95 | |
| | HOLL | 26 | 1501 | 1503 | 1510 | S14 | W17 | 4150 | 04 | 25.3 | 9 | SN C 1.2 | 3 | C | | 81 | |
| | RAMY | 26 | 1501 | 1503 | 1515 | S14 | W17 | 4150 | 04 | 25.3 | 14 | SN C 1.2 | 3 | C | | 109 | |
| 0285 | HOLL | 26 | 1502 | 1502 | 1509 | S15 | E31 | 4156 | 04 | 29.0 | 7 | SF | 3 | C | | 20 | |
| 0286 | RAMY | 26 | 1607 | 1610 | 1631 | S15 | E32 | 4156 | 04 | 29.1 | 24 | SN | 3 | C | | 40 | |
| | | 26 | 1642 | | | 1711 | | | | | | | | | | | |
| 0287 | HOLL | 26 | 1723 | 1724 | 1743 | S03 | E47 | 4157 | 04 | 30.2 | 20 | SF | 3 | C | | 78 | |
| 0288 | HOLL | 26 | 1745 | 1745 | 1807 | S15 | E30 | 4156 | 04 | 29.0 | 22 | SF | 3 | C | | 20 | |
| 0289 | | 26 | 17581 | 17591 | 1819 | S13 | E58 | 4164B | 05 | 1.1 | 21 | SN | | | | 22 | |
| | RAMY | 26 | 1758 | 1800 | 1825 | S13 | E58 | 4164B | 05 | 1.1 | 27 | SF | 3 | C | | 30 | |
| | HOLL | 26 | 1759 | 1759 | 1813 | S13 | E58 | 4164B | 05 | 1.1 | 14 | SN | 3 | C | | 15 | F |
| 0290 | HOLL | 26 | 1814 | 1815 | 1823 | S15 | E28 | 4156 | 04 | 28.9 | 9 | SF | 3 | C | | 32 | |
| | | 26 | 1908 | | | 2225 | | | | | | | | | | | |
| 0291 | HOLL | 26 | 1919 | 1933 | 1959 | S03 | E48 | 4157 | 04 | 30.4 | 40 | SN | 3 | C | | 62 | |
| 0292 | | 26 | 2340 | 2341 | 2359 | S09 | W25 | 4150 | 04 | 25.1 | 19 | SN C 2.5 | | | | 70 | .8 |
| | CULG | 26 | 2340E | 2340U | 2352 | S09 | W25 | 4150 | 04 | 25.1 | 120 | SN | | P | 2340 | 60 | .7 |
| | MANI | 26 | 2340 | 2341 | 2406 | S09 | W25 | 4150 | 04 | 25.1 | 26 | SF C 2.5 | 1 | V | | 80 | .9 |
| 0293 | CULG | 27 | 0006 | 0012 | 0017 | N01 | E46 | 4157 | 04 | 30.4 | 11 | SF | | C | 0012 | 30 | .4 |
| 0294 | | 27 | 0253 | 0255 | 0314 | S17 | E23 | 4156 | 04 | 28.9 | 21 | IN M 1.1 | 1 | V | | 220 | 2.5 |
| | MANI | 27 | 0248E | 0255 | 0304 | S20 | E22 | 4156 | 04 | 28.8 | 160 | SN M 1.1 | 1 | V | | 120 | 1.4 |
| | CULG | 27 | 0253 | 0254U | 0304D | S16 | E23 | 4156 | 04 | 28.9 | 11D | SN | | P | 0254 | 180 | 1.9 |
| | MITK | 27 | 0253 | 0255 | 0319 | S15 | E23 | 4156 | 04 | 28.9 | 26 | IN | | C | 0255 | 220 | 2.5 |
| | YUNN | 27 | 0256E | 0256U | 0320 | S16 | E23 | 4156 | 04 | 28.9 | 240 | 1B | | P | 0256 | 362 | 4.1 |
| 0295 | ABST | 27 | 0612 | 0614 | 0621 | S09 | W30 | 4150 | 04 | 25.0 | 9 | SF | | C | 0614 | 122 | EJ |
| 0296 | | 27 | 0646 | 06499 | 0715 | S09 | W30 | 4150 | 04 | 25.0 | 29 | SN | | | | 76 | 1.0 |
| | ATHN | 27 | 0646 | 0649 | 0715 | S09 | W29 | 4150 | 04 | 25.1 | 29 | SF | 4 | V | 0649 | 48 | .6 |
| | ABST | 27 | 0657E | 0658 | 0707D | S09 | W30 | 4150 | 04 | 25.0 | 100 | SN | | P | 0658 | 105 | FJ |
| 0297 | KHAR | 27 | 0859E | 0900 | 0918D | S04 | E40 | 4157 | 04 | 30.4 | 190 | SF | | P | 0900 | | |

H - ALPHA SOLAR FLARES

53
Apr 83

APRIL 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | Cmp Region | Dur Mo Day | Imp (Min) | Obs Opt | Time (UT) | Apparent (10 ⁻⁶ Disk) | Area Measurement | | Remarks | | | |
|----------|------|-------|---------------|-------------|-------------|----------|----------------------|---------------|---------------|--------------|------------|--------------|-------------------------------------|------------------|------------------|---------|------|-----|--|
| | | | | | | | | | | | | | | Time (UT) | Corr (Sq Deg) | | | | |
| | 27 | 0956 | | 1014 | | No Flare | Patrol | | | | | | | | | | | | |
| | 27 | 1131 | | 1143 | | No Flare | Patrol | | | | | | | | | | | | |
| | 27 | 1146 | | 1200 | | No Flare | Patrol | | | | | | | | | | | | |
| | 27 | 1202 | | 1214 | | No Flare | Patrol | | | | | | | | | | | | |
| | 27 | 1223 | | 1227 | | No Flare | Patrol | | | | | | | | | | | | |
| | 27 | 1301 | | 1304 | | No Flare | Patrol | | | | | | | | | | | | |
| 0298 | 27 | 1350 | 03 | 1350* | 1426 | S19 | E16 | 4156 | 04 | 28.8 | 36 | IN | M | 1.3 | 179 | 1.5 | EFHK | | |
| | HOLL | 27 | 1350 | 1350 | 1428 | S19 | E16 | 4156 | 04 | 28.8 | 38 | SN | | 2 | C | 68 | K | | |
| | RAMY | 27 | 1350 | 1356 | 1426 | S19 | E17 | 4156 | 04 | 28.9 | 36 | 1B | M | 1.3 | 239 | K | | | |
| | HOLL | 27 | 1350 | 1356 | 1428 | S19 | E16 | 4156 | 04 | 28.8 | 38 | 1B | M | 1.3 | 241 | FK | | | |
| | RAMY | 27 | 1350 | 1416 | 1426 | S19 | E17 | 4156 | 04 | 28.9 | 36 | SN | | 3 | C | 123 | K | | |
| | ATRN | 27 | 1353 | 1359 | 1422 | S21 | E15 | 4156 | 04 | 28.7 | 29 | 1B | | 4 | V | 1359 | 223 | | |
| | MONT | 27 | 1355 | 1400 | 1400D | S20 | E17 | 4156 | 04 | 28.9 | 50 | IN | | C | | 1400 | 300 | | |
| | HTPR | 27 | 1413 | 1413E | 1429 | S20 | E17 | 4156 | 04 | 28.9 | 160 | SF | | C | | 1418 | 60 | | |
| 0299 | 27 | 1409 | | 1412 | 1428 | S15 | E26 | 4162 | 04 | 29.5 | 19 | SN | | | | 36 | .4 | E | |
| | HOLL | 27 | 1409 | 1412 | 1430 | S15 | E26 | 4162 | 04 | 29.5 | 21 | SN | | 2 | C | 33 | | | |
| | HTPR | 27 | 1413 | 1413E | 1425 | S15 | E27 | 4162 | 04 | 29.6 | 120 | SF | | C | | 40 | .4 | E | |
| 0300 | 27 | 1532 | 21 | 1535 | 1546 | S16 | E26 | 4164 | 04 | 29.6 | 14 | IN | | | | 220 | 4.4 | EF | |
| | HOLL | 27 | 1532 | 1535 | 1546 | S16 | E26 | 4164 | 04 | 29.6 | 14 | SN | | 3 | C | 39 | F | | |
| | HTPR | 27 | 1533 | | 1542D | S16 | E27 | 4164 | 04 | 29.7 | 90 | 1F | | C | | 1535 | 400 | 4.4 | |
| 0301 | HOLL | 27 | 1700 | 1701 | 1736 | S09 | E08 | 4154 | 04 | 28.3 | 36 | SN | C | 2.1 | 3 | C | 37 | FU | |
| 0302 | HOLL | 27 | 1701 | 1705 | 1714 | S16 | E28 | 4164 | 04 | 29.8 | 13 | SN | C | 1.8 | 3 | C | 46 | F | |
| 0303 | 27 | 1712 | * | 1754* | 1831 | S15 | E24 | 4162 | 04 | 29.5 | 79 | SB | C | 3.3 | | 102 | | FK | |
| | RAMY | 27 | 1712 | 1754 | 1754D | S16 | E25 | 4162 | 04 | 29.6 | 420 | SB | C | 3.3 | 3 | C | 131 | | |
| | HOLL | 27 | 1748 | 1756 | 1831 | S15 | E24 | 4162 | 04 | 29.5 | 43 | SB | C | 3.3 | 3 | C | 112 | FK | |
| | HOLL | 27 | 1748 | 1812 | 1831 | S15 | E24 | 4162 | 04 | 29.5 | 43 | SN | | 3 | C | 63 | K | | |
| 0304 | HOLL | 27 | 1719 | 1719 | 1729 | S15 | E17 | 4156 | 04 | 29.0 | 10 | SF | C | 2.0 | 3 | C | 23 | F | |
| 0305 | RAMY | 27 | 1749 | 1750 | 1755 | S04 | E37 | 4157 | 04 | 30.5 | 6 | SF | | 3 | C | 74 | | | |
| 0306 | HOLL | 27 | 1808 | 1813 | 1829 | S09 | W37 | 4150 | 04 | 25.0 | 21 | SF | | 3 | C | 28 | | F | |
| 0307 | 27 | 1916 | * | 1916* | 1942 | S17 | E25 | 4162 | 04 | 29.7 | 26 | SN | C | 3.4 | | 169 | | K | |
| | HOLL | 27 | 1916 | 1916 | 1942 | S16 | E24 | 4162 | 04 | 29.6 | 26 | SF | C | 3.4 | 3 | C | 20 | K | |
| | HOLL | 27 | 1916 | 1931 | 1942 | S16 | E24 | 4162 | 04 | 29.6 | 26 | SN | | 3 | C | 121 | | K | |
| | RAMY | 27 | 1928 | 1932 | 1934D | S19 | E28 | 4162 | 04 | 29.9 | 60 | IN | | 3 | C | 367 | | | |
| 0308 | 27 | 2207 | 21 | 2208 | 2225 | S16 | E24 | 4162 | 04 | 29.7 | 18 | SB | C | 3.0 | | 113 | 1.2 | F | |
| | HOLL | 27 | 2207 | 2208 | 2225 | S16 | E24 | 4162 | 04 | 29.7 | 18 | SB | C | 3.0 | 3 | C | 116 | F | |
| | MANI | 27 | 2208 | 2209 | 2213D | S15 | E24 | 4162 | 04 | 29.7 | 50 | SB | | 1 | V | 110 | 1.2 | F | |
| 0309 | HOLL | 27 | 2234 | 2234 | 2246 | S17 | W39 | 4150 | 04 | 25.0 | 12 | SF | | 3 | C | 23 | | S | |
| 0310 | HOLL | 27 | 2238 | 2239 | 2246 | N19 | E04 | 4160 | 04 | 28.2 | 8 | SF | | 3 | C | 21 | | | |
| 0311 | HOLL | 27 | 2251 | 2253 | 2301 | S13 | E09 | 4154 | 04 | 28.6 | 10 | SF | | 3 | C | 33 | | F | |
| 0312 | HOLL | 27 | 2318 | 2320 | 2330 | S15 | E21 | 4162 | 04 | 29.6 | 12 | SN | C | 2.3 | 3 | C | 90 | F | |
| 0313 | HOLL | 27 | 2334 | 2335 | 2348 | S16 | E10 | 4154 | 04 | 28.7 | 14 | SN | | 3 | C | 42 | | F | |
| 0314 | 27 | 2341 | * | 2342* | 2421 | S16 | E21 | 4162 | 04 | 29.6 | 40 | SN | C | 3.2 | | 80 | | FK | |
| | HOLL | 27 | 2341 | 2342 | 2424 | S16 | E21 | 4162 | 04 | 29.6 | 43 | SN | | 3 | C | 89 | | K | |
| | HOLL | 27 | 2341 | 2409 | 2424 | S16 | E21 | 4162 | 04 | 29.6 | 43 | SN | | 3 | C | 109 | | FK | |
| | LEAR | 28 | 0006 | 0008 | 0014 | S15 | E20 | 4162 | 04 | 29.5 | 8 | SN | C | 3.2 | 3 | C | 41 | | |
| 0315 | HOLL | 27 | 2353 | 2354 | 2434 | S03 | E34 | 4157 | 04 | 30.5 | 41 | SN | | 3 | C | 52 | | F | |
| 0316 | 28 | 00205 | 00281 | 0037 | N18 | E02 | 4160 | 04 | 28.2 | 17 | SN | | | | | 28 | | | |
| | HOLL | 28 | 0020 | 0028 | 0037 | N19 | E02 | 4160 | 04 | 28.2 | 17 | SN | | 3 | C | 33 | | | |
| | LEAR | 28 | 0025 | 0029 | 0037 | N18 | E02 | 4160 | 04 | 28.2 | 12 | SN | | 3 | C | 23 | | | |

54
Apr 83

H - ALPHA SOLAR FLARES

APRIL 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF Region | CMP Mo Day | Dur (Min) | Imp | Obs Xray See | Type | Area Measurement | | | | |
|-------|------|-----|------------|----------|----------|-----------------|-----|------------------|------------|-----------|----------|--------------|------|------------------|-----------------------|---------------|---------|--|
| | | | | | | | | | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | |
| 0317 | LEAR | 28 | 0045 | 0049 | 0104 | S17 | E10 | 4156 | 04 28.8 | 19 | SN | 3 | C | | 74 | | F | |
| 0318 | ABST | 28 | 0414 | 0415 | 0418 | S16 | W21 | | 04 26.5 | 4 | SF | | C | 0414 | 60 | .7 | DV | |
| 0319 | ABST | 28 | 0508 | 0510 | 05100 | S18 | E18 | 4162A | 04 29.6 | 20 | SF | | P | 0510 | 87 | 1.0 | D | |
| 0320 | ABST | 28 | 0627 | 0634 | 0645D | N21 | E02 | 4160 | 04 28.4 | 18D | SF | | P | 0634 | 87 | 1.0 | D | |
| 0321 | ABST | 28 | 0658 | 0658 | 0703 | S03 | E29 | 4157 | 04 30.4 | 5 | SF | | C | 0658 | 87 | 1.2 | DV | |
| 0322 | | 28 | 07097 | 07182 | 0742 | S15 | E18 | 4162 | 04 29.7 | 33 | SN C 2.0 | | | | 80 | 1.2 | E | |
| | KANZ | 28 | 0709 | 0718 | 0732 | S16 | E18 | 4162 | 04 29.7 | 23 | SN C 2.0 | | C | | 71 | .8 | E | |
| | CATA | 28 | 0715 | 0720 | 08000 | S15 | E17 | 4162 | 04 29.6 | 45D | S | 2 | P | 0720 | 140 | 1.5 | | |
| | LEAR | 28 | 0716 | 0718 | 0753 | S15 | E17 | 4162 | 04 29.6 | 37 | SF C 2.0 | 3 | C | | 28 | | | |
| | KANZ | 28 | 0721E | | 0725D | S15 | E19 | 4162 | 04 29.7 | 40 | SN | 2 | | | | | | |
| 0323 | LEAR | 28 | 0737 | 0738 | 0801 | S10 | E00 | 4154 | 04 28.3 | 24 | SF | 3 | C | | 40 | | | |
| 0324 | | 28 | 0929* | 0932* | 0950 | S06 | E24 | 4157 | 04 30.2 | 29 | SN | | | | 107 | .9 | DE | |
| | KANZ | 28 | 0929 | 0949 | 0957D | S08 | E23 | 4157 | 04 30.1 | 28D | IN | 3 | | | | | | |
| | KANZ | 28 | 0930 | 0932 | 0935 | S06 | E22 | 4157 | 04 30.0 | 5 | SF | | C | | 21 | .2 | D | |
| | CATA | 28 | 0940 | 1005 | 10300 | S05 | E21 | 4157 | 04 30.0 | 500 | S | 2 | P | 1005 | 169 | 1.9 | | |
| | CATA | 28 | 0940 | 1005 | 1030D | S05 | E27 | 4157 | 04 30.4 | 500 | S | 2 | P | 1005 | 140 | 1.6 | | |
| | MONT | 28 | 0944 | 0955 | 10050 | S08 | E24 | 4157 | 04 30.2 | 21D | SN | | C | 0955 | 220 | | | |
| | KANZ | 28 | 0948 | 0958 | 1010 | S06 | E22 | 4157 | 04 30.0 | 22 | SN | | C | | 46 | .5 | E | |
| | KANZ | 28 | 0948 | 0958 | 1010 | S07 | E27 | 4157 | 04 30.4 | 22 | SN | | C | | 46 | .5 | E | |
| 0325 | | 28 | 09408 | 0958* | 1024 | S11 | E22 | 4162 | 04 30.0 | 44 | SB | | | | 116 | 1.3 | EL | |
| | CATA | 28 | 0940 | 1005 | 1030D | S12 | E21 | 4162 | 04 30.0 | 500 | S | 2 | P | 1005 | 169 | 1.9 | | |
| | KANZ | 28 | 0948 | 0958 | 1010 | S12 | E21 | 4162 | 04 30.0 | 22 | SB | | C | | 62 | .7 | E | |
| | KANZ | 28 | 1022E | 1022 | 1039 | S10 | E24 | 4162 | 04 30.2 | 17D | SN | 3 | | | | | | |
| 0326 | | 28 | 10482 | 10502 | 1116 | S03 | E24 | 4157 | 04 30.2 | 28 | 1B M 1.2 | | | | 346 | 3.8 | E | |
| | ATHN | 28 | 1048 | 1052 | 1118 | S05 | E26 | 4157 | 04 30.4 | 30 | 1B | 3 | V | 1052 | 255 | 2.9 | | |
| | CATA | 28 | 1050E | 1050 | 1120 | S02 | E23 | 4157 | 04 30.2 | 300 | 2 | 2 | P | 1050 | 618 | 6.9 | | |
| | KANZ | 28 | 1050 | 1052 | 1109 | S03 | E24 | 4157 | 04 30.2 | 19 | SB M 1.2 | | C | | 166 | 1.6 | E | |
| | KANZ | 28 | 1056E | | 1056D | S03 | E25 | 4157 | 04 30.3 | 19D | SB | 3 | | | | | | |
| 0327 | | 28 | 11394 | 11418 | 1208 | S11 | W01 | 4154 | 04 28.4 | 29 | SN | | | | 78 | .8 | E | |
| | KANZ | 28 | 1139 | 1141 | 1154 | S10 | W03 | 4154 | 04 28.2 | 15 | SF | | C | | 62 | .6 | E | |
| | KANZ | 28 | 1141 | | 1141D | S12 | W03 | 4154 | 04 28.3 | 15D | SN | 2 | | | | | | |
| | ATHN | 28 | 1143 | 1149 | 1223 | S11 | E02 | 4154 | 04 28.6 | 40 | SB | 3 | V | 1149 | 95 | 1.0 | | |
| 0328 | RAMY | 28 | 1638 | 1639 | 1700 | N14 | W07 | 4159 | 04 28.2 | 22 | SN | 3 | C | | 127 | | | |
| 0329 | RAMY | 28 | 1727 | 1744 | 1758 | S16 | E14 | 4162 | 04 29.8 | 31 | SF C 2.2 | 3 | C | | 35 | | | |
| 0330 | RAMY | 28 | 1831 | 1841 | 1845D | S18 | E04 | 4156 | 04 29.1 | 14D | IN C 3.4 | 3 | C | | 275 | | F | |
| 0331 | RAMY | 28 | 1908 | 1908 | 1913 | S06 | E16 | 4157 | 04 30.0 | 5 | SN | 3 | C | | 57 | | | |
| | | 28 | 1938 | | 1950 | No Flare Patrol | | | | | | | | | | | | |
| | | 28 | 2141 | | 2201 | No Flare Patrol | | | | | | | | | | | | |
| 0332 | PALE | 28 | 2209 | 2211 | 2216 | N12 | W13 | 4159 | 04 27.9 | 7 | SN C 2.4 | 3 | C | | 52 | | F | |
| 0333 | | 29 | 0615* | 0620* | 0658 | S11 | E79 | 4165 | 05 5.2 | 43 | 2N C 3.5 | | | | 116 | | DGK | |
| | LEAR | 29 | 0615 | 0620 | 0711 | S12 | E81 | 4165 | 05 5.4 | 56 | 3N C 3.5 | 3 | C | | | | K | |
| | ABST | 29 | 0615 | 0622 | 0652 | S11 | E80 | 4165 | 05 5.3 | 37 | 2N | | C | 0622 | 175 | | DK | |
| | LEAR | 29 | 0615 | 0630 | 0711 | S12 | E81 | 4165 | 05 5.4 | 56 | 2N | 3 | C | | | | K | |
| | ISTA | 29 | 0625 | | 0640 | S10 | E77 | 4165 | 05 5.0 | 15 | SN | | C | | | | G | |
| | CATA | 29 | 0630E | 0630 | 0640D | S12 | E78 | 4165 | 05 5.1 | 100 | ! | 1 | P | 0630 | 56 | | | |
| 0334 | | 29 | 06305 | 0635* | 0656 | S16 | W06 | 4156 | 04 28.8 | 26 | SN | | | | 88 | .9 | DEJU | |
| | ISTA | 29 | 0630 | | 0640 | S14 | W07 | 4156 | 04 28.7 | 10 | IN | | | | | | U | |
| | ABST | 29 | 0635 | 0635 | 0641 | S16 | W06 | 4156 | 04 28.8 | 6 | SN | | | 3 | 0635 | 114 | EJ | |
| | LEAR | 29 | 0635 | 0636 | 0713 | S17 | W06 | 4156 | 04 28.8 | 38 | SF | 3 | C | | 91 | | | |
| | ABST | 29 | 0652E | 0657 | 0710 | S16 | W06 | 4156 | 04 28.8 | 18D | SF | 3 | P | 0657 | 60 | .6 | D | |

H - ALPHA SOLAR FLARES

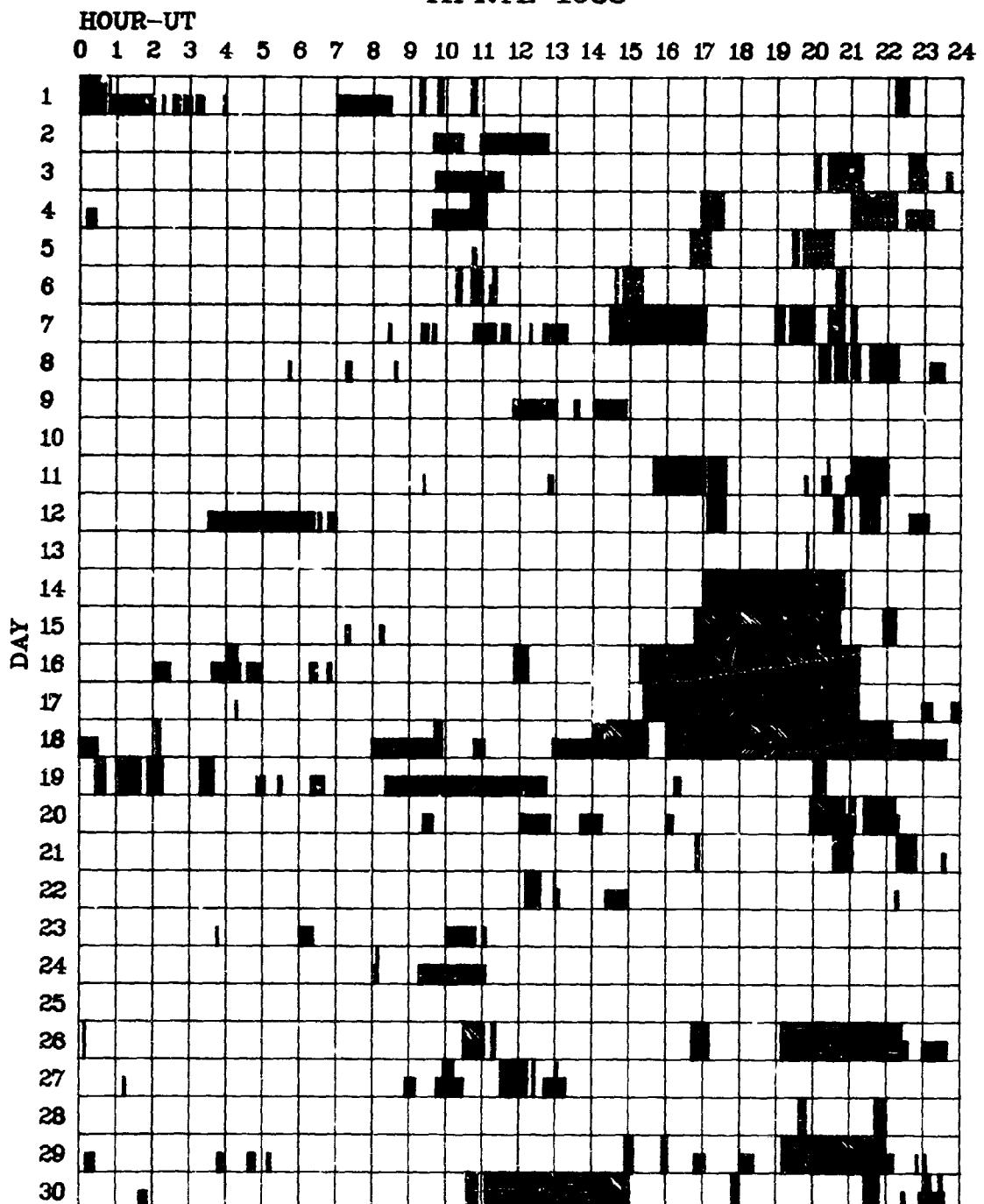
55
Apr 83

APRIL 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA/ USAF OMP | Dur (Min) | Imp | Area Measurement | | | | | | | | |
|-------|------|-----------|----------|----------|-------|-----------------|-----------------|------|------------------|----|-------|-----|-----------|-----------------------|---------------|---------|--|
| | | | | | | | | | Region | Mo | Day | Obs | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Dsg) | Remarks | |
| 0335 | KHAR | 29 | 10164 | 10196 | 1039 | S14 W08 4154 | 04 | 28.8 | 23 | SB | | | | 166 | 1.7 | EH | |
| | | 29 | 1015E | 1022 | 1040D | S14 W08 4154 | 04 | 28.8 | 250 | SN | | P | 1020 | 150 | 1.5 | EH | |
| | ATHN | 29 | 1016 | 1019 | 1039 | S13 W07 4154 | 04 | 28.9 | 23 | SB | 3 | V | 1019 | 159 | 1.7 | | |
| | HTPR | 29 | 1018E | | 1051D | S15 W10 4154 | 04 | 28.7 | 130 | SB | | C | 1022 | 160 | 1.6 | E | |
| | CATA | 29 | 1020 | 1020 | 1045 | S15 W09 4154 | 04 | 28.7 | 25 | 1 | 1 | C | 1020 | 197 | 2.1 | | |
| | KANZ | 29 | 1020E | 1025 | 1034 | S16 W09 4154 | 04 | 28.7 | 140 | IN | 2 | | | | | | |
| | | 29 | 1454 | | | 1501 | No Flare Patrol | | | | | | | | | | |
| | | 29 | 1505 | | | 1508 | No Flare Patrol | | | | | | | | | | |
| | | 29 | 1554 | | | 1604 | No Flare Patrol | | | | | | | | | | |
| | | 29 | 1910 | | | 2159 | No Flare Patrol | | | | | | | | | | |
| U336 | WORO | 29 | 2218 | 2222 | 2234 | S12 W60 4150 | 04 | 25.4 | 16 | SN | | C | 2222 | 72 | 1.3 | CE | |
| 0337 | PALE | 29 | 2350 | 2357 | 2410 | S04 W02 4157 | 04 | 29.8 | 20 | SF | C 1.3 | | | 38 | .4 | F | |
| | | 29 | 2350 | 2356U | 2406D | S05 W02 4157 | 04 | 29.8 | 160 | SF | C 1.3 | 3 | C | 41 | | F | |
| | MANI | 29 | 2352E | 2357 | 2410 | S04 W02 4157 | 04 | 29.8 | 180 | SF | C 1.3 | 1 | V | 35 | .4 | F | |
| 0338 | LEAR | 30 | 0047 | 0049 | 0116 | S09 E70 4165 | 05 | 5.3 | 29 | SN | C 3.0 | | | 82 | | F | |
| | LEAR | 30 | 0047 | 0049 | 0116 | S09 E72 4165 | 05 | 5.4 | 29 | SN | C 3.0 | 3 | C | 45 | | F | |
| | PALE | 30 | 0058E | 0108U | 0113D | S09 E68 4165 | 05 | 5.1 | 150 | SF | | 3 | C | 119 | | F | |
| 0339 | LEAR | 30 | 0253 | 0253 | 0258 | S15 W20 4154 | 04 | 28.6 | 5 | SF | | 3 | C | | 27 | | |
| 0340 | PALE | 30 | 0255E | 0316U | 0336 | S21 W13 4156 | 04 | 29.1 | 410 | SF | C 2.2 | 3 | C | | 73 | | |
| 0341 | LEAR | 30 | 0306 | 0311 | 0328 | S15 W20 4154 | 04 | 28.6 | 22 | SF | | 3 | C | | 55 | | |
| 0342 | LEAR | 30 | 03361 | 03398 | 0359 | S10 E72 4165 | 05 | 5.5 | 23 | SN | C 4.2 | | | 55 | | EF | |
| | LEAR | 30 | 0336 | 0339 | 0406 | S09 E72 4165 | 05 | 5.5 | 30 | SN | C 4.2 | 3 | C | 60 | | F | |
| | PEKG | 30 | 0337 | 0347 | 0352 | S10 E72 4165 | 05 | 5.6 | 15 | SF | | | 0347 | 50 | E | | |
| 0343 | LEAR | 30 | 0721 | 0722 | 0738 | S09 E70 4165 | 05 | 5.5 | 17 | SF | C 2.0 | 3 | C | | 19 | F | |
| 0344 | KANZ | 30 | 0755* | 0805* | 0845 | S10 E67 4165 | 05 | 5.4 | 50 | SN | | | | 93 | 1.6 | F | |
| | KANZ | 30 | 0755 | 0810 | 0839 | S09 E69 4165 | 05 | 5.5 | 44 | SN | | 3 | | | | | |
| | LEAR | 30 | 0803 | 0806 | 0900 | S09 E68 4165 | 05 | 5.4 | 57 | SN | | 3 | C | 119 | | F | |
| | MANI | 30 | 0804 | 0805 | 0856 | S10 E66 4165 | 05 | 5.3 | 52 | SN | | 1 | V | 95 | 2.0 | F | |
| | ATHN | 30 | 0811 | 0820 | 0825 | S10 E64 4165 | 05 | 5.1 | 14 | SN | | 2 | V | 64 | 1.3 | | |
| 0345 | ISTA | 30 | 08053 | 0815* | 1000 | S17 W17 4156 | 04 | 29.0 | 115 | 2B | M 2.9 | | | 844 | 9.0 | BEFIUZ | |
| | MANI | 30 | 0805 | 0815 | 0938D | S16 W18 4156 | 04 | 29.0 | 930 | 2B | M 2.9 | 1 | V | 850 | 9.4 | ZU | |
| | LEAR | 30 | 0805 | 0818 | 0915D | S17 W17 4156 | 04 | 29.0 | 700 | 2B | M 2.9 | 3 | C | 917 | | ZU | |
| | KANZ | 30 | 0805 | 0829 | 1035D | S16 W16 4156 | 04 | 29.1 | 1500 | 2B | | 3 | | | | | |
| | ISTA | 30 | 0808 | | 0855 | S17 W17 4156 | 04 | 29.0 | 47 | 2N | | | | | FI | | |
| | ATHN | 30 | 0808 | 0820 | 1106 | S18 W17 4156 | 04 | 29.0 | 178 | 2B | | 2 | V | 0822 | 716 | 8.0 | |
| | HTPR | 30 | 0826E | | 0826D | S18 W18 4156 | 04 | 29.0 | 1780 | 2B | | | C | 0826 | 1000 | 10.0 | |
| | CATA | 30 | 0840E | 0845 | 0846D | S17 W18 4156 | 04 | 29.0 | 60 | 2 | | 2 | P | 0845 | 956 | 10.6 | |
| | CATA | 30 | 0905E | 0915 | 0935D | S17 W18 4156 | 04 | 29.0 | 300 | 2 | | 2 | P | 0915 | 731 | 8.1 | |
| | MONT | 30 | 0932E | 0932 | 1030D | S19 W15 4156 | 04 | 29.2 | 580 | 2B | | | C | 0932 | 850 | | |
| | CATA | 30 | 0946E | 0947 | 1000D | S17 W17 4156 | 04 | 29.1 | 140 | 2 | | 2 | P | 0947 | 731 | 8.1 | |
| | | 30 | 1036 | | 1054 | No Flare Patrol | | | | | | | | | | | |
| | | 30 | 1106 | | 1502 | No Flare Patrol | | | | | | | | | | | |
| | | 30 | 1749 | | 1758 | No Flare Patrol | | | | | | | | | | | |
| | | 30 | 2124 | | 2149 | No Flare Patrol | | | | | | | | | | | |
| | | 30 | 2305 | | 2314 | No Flare Patrol | | | | | | | | | | | |
| | | 30 | 2327 | | 2332 | No Flare Patrol | | | | | | | | | | | |
| 0346 | LEAR | 30 | 2344 | 2344 | 2356 | S16 W18 4162 | 04 | 29.6 | 12 | SN | | 3 | C | | 50 | | |

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

APRIL 1983



Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

| | | | | |
|------------|----------------|-------------|-------------|-------------|
| Abastumani | Culgoora | Kanzelhoehe | Mitaka | Ramsey |
| Athens | Haute Provence | Kharkov | Monte Mario | Tashkent |
| Bucharest | Holloman | Learmonth | Palehua | Voroshilov |
| Catania | Istanbul | Lvov | Peking | Wendelstein |
| | Kandilli | Manila | Purple Mt. | Yunnan |

H - ALPHA SOLAR FLARES

57
May 83

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF CMC Region | OMP No | Dur (Min) | Imp Opt | Xray See | Obs Type | Area Measurement | | | | |
|-------|------|----------------|----------|----------|----------|----------------------|--------|-----------|--------------|----------|----------|------------------|------|-----------|-----------------------|---------------|
| | | | | | | | | | | | | Day | Mo | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) |
| 0001 | LEAR | 01 0054 | 0055 | 0058 | S15 | W14 | 4162 | 04 30.0 | 4 SF | 3 C | | | | 23 | | |
| 0002 | | 01 0118 | 0118* | 0140 | S10 | E57 | 4165 | 05 5.3 | 22 SF | | | | | 31 | | |
| | LEAR | 01 0118 | 0118 | 0140 | S10 | E57 | 4165 | 05 5.3 | 22 SF | 3 C | | | | 24 | | K |
| | LEAR | 01 0118 | 0128 | 0140 | S10 | E57 | 4165 | 05 5.3 | 22 SF | 3 C | | | | 38 | | K |
| 0003 | LEAR | 01 0157 | 0157 | 0203 | S15 | W19 | 4162 | 04 29.7 | 6 SF | 3 C | | | | 47 | | |
| 0004 | | 01 0218* | 02575 | 0325 | S12 | E52 | 4165 | 05 5.0 | 67 1B C 8.7 | | | | | 279 | 4.2 | FU |
| | LEAR | 01 0218 | 0257 | 0342 | S11 | E52 | 4165 | 05 5.0 | 84 1B C 8.7 | 3 C | | | | 355 | | F |
| | PURP | 01 0257E | 0258 | 0315 | S12 | E53 | 4165 | 05 5.1 | 18D 1B | | | | | 179 | 3.1 | |
| | MANI | 01 0258 | 0258 | 0318 | S11 | E52 | 4165 | 05 5.0 | 20 2B | 1 V | | | | 350 | 5.7 | F |
| | PEKG | 01 0258 | 0302 | 0315D | S12 | E53 | 4165 | 05 5.1 | 17D 1N C 8.7 | P | | | | 231 | 3.9 | U |
| 0005 | LEAR | 01 0300 | 0301 | 0307 | S11 | W05 | 4164A | 04 30.7 | 7 SF | 3 C | | | | 34 | | |
| 0006 | LEAR | 01 0326 | 0329 | 0344 | S14 | W33 | 4154 | 04 28.7 | 18 SF | 3 C | | | | 32 | | |
| 0007 | LEAR | 01 0354 | 0404 | 0422 | S10 | E56 | 4165 | 05 5.4 | 28 SF C 1.3 | 3 C | | | | 59 | | |
| 0008 | LEAR | 01 0457 | 0458 | 0505 | S14 | W21 | 4162 | 04 29.7 | 8 SF | 3 C | | | | 26 | | |
| 0009 | | 01 0600* | 0601* | 0628 | S11 | E50 | 4165 | 05 5.0 | 28 SN C 1.4 | | | | | 41 | 1.1 | EU |
| | LEAR | 01 0600 | 0601 | 0605 | S11 | E50 | 4165 | 05 5.0 | 5 SN C 1.4 | 3 C | | | | 34 | | U |
| | LEAR | 01 0611 | 0614 | 0619 | S11 | E50 | 4165 | 05 5.0 | 8 SN C 1.1 | 3 C | | | | 25 | | |
| | PEKG | 01 0617 | 0626 | 0638 | S11 | E51 | 4165 | 05 5.1 | 21 SN | | | | | 67 | 1.1 | E |
| | LEAR | 01 0621 | 0629 | 0649 | S11 | E50 | 4165 | 05 5.0 | 28 SN C 1.4 | 3 C | | | | 37 | | U |
| 0010 | | 01 07123 | 0720* | 0820 | S13 | W33 | 4154 | 04 28.9 | 68 1N C 4.7 | | | | | 216 | 2.4 | EF |
| | LEAR | 01 0712 | 0720 | 0824 | S14 | W33 | 4154 | 04 28.9 | 72 1N C 4.7 | 3 C | | | | 289 | | F |
| | ATHN | 01 0714 | 0721 | 0831 | S12 | W31 | 4154 | 04 29.1 | 77 1N | 3 V | | | | 223 | 2.7 | |
| | PEKG | 01 0715 | 0722 | 0759 | S12 | W34 | 4154 | 04 28.8 | 44 SN C 4.7 | P | | | | 80 | 1.0 | E |
| | MANI | 01 0715E | 0720 | 0827 | S15 | W34 | 4154 | 04 28.8 | 71D 1N | 1 V | | | | 270 | 3.5 | F |
| | KANZ | 01 0740E | 0740 | 0811D | S13 | W34 | 4154 | 04 28.8 | 31D SN | 1 | | | | | | |
| 0011 | | 01 09082 | 09102 | 0936 | S10 | E54 | 4165 | 05 5.4 | 28 1N C 2.5 | | | | | 113 | 1.5 | D |
| | LEAR | 01 0908 | 0910 | 0916D | S09 | E53 | 4165 | 05 5.3 | 80 1F C 2.5 | 3 C | | | | 180 | | |
| | KAND | 01 0908 | 0910 | 0918D | S11 | E54 | 4165 | 05 5.4 | 100 SB | | | | | 21 | .4 | D |
| | MANI | 01 0908 | 0910 | 0936D | S10 | E53 | 4165 | 05 5.4 | 28D 1N | 1 V | | | | 157 | 2.6 | |
| | ATHN | 01 0910 | 0912 | 0936 | S11 | E55 | 4165 | 05 5.5 | 26 SF | 3 V | | | | 95 | 1.6 | |
| | | 01 0937 | | 1239 | No Flare | Patrol | | | | | | | | | | |
| | | 01 1304 | | 1708 | No Flare | Patrol | | | | | | | | | | |
| 0012 | ATHN | 01 1316 | 1325 | 1351 | S10 | E50 | 4165 | 05 5.3 | 35 SB | 3 V | | | 1325 | 111 | 1.7 | |
| 0013 | HOLL | 01 1709E | 1725 | 1745D | S09 | E44 | 4165 | 05 5.0 | 36D SF | 3 C | | | | 106 | | |
| 0014 | HOLL | 01 1715 | 1718 | 1736 | S13 | W28 | 4162 | 04 29.7 | 21 SN C 1.0 | 3 C | | | | 54 | | F |
| | | 01 1746 | | 1843 | No Flare | Patrol | | | | | | | | | | |
| 0015 | PALE | 01 1845E | 1845U | 1921D | S07 | E49 | 4165 | 05 5.4 | 36D 1B C 5.8 | 3 C | | | | 400 | | EZ |
| | | 01 1852 | | 1908 | No Flare | Patrol | | | | | | | | | | |
| | | 01 1922 | | 1924 | No Flare | Patrol | | | | | | | | | | |
| 0016 | HOLL | 01 1937 | 1959 | 2036 | S15 | W37 | 4156 | 04 29.1 | 59 SF | 2 C | | | | 162 | | F |
| 0017 | HOLL | 01 2045 | 2053 | 2054D | S16 | W38 | 4156 | 04 29.1 | 90 1N C 7.4 | 2 C | | | | 312 | | F |
| 0018 | HOLL | 01 2058E | 2111U | 2207D | S27 | W26 | | 04 29.9 | 69D SF | 2 C | | | | 64 | | F |
| | | 01 2119 | | 2149 | No Flare | Patrol | | | | | | | | | | |
| 0019 | | 01 2314E | 2321* | 2439 | S16 | W37 | 4156 | 04 29.3 | 85D 2N M 2.9 | | | | | 409 | 5.1 | FU |
| | PEKG | 01 2314E | 2321 | 2400D | S16 | W38 | 4156 | 04 29.2 | 46D 2N M 2.9 | P | | | | 463 | 6.1 | U |
| | MANI | 01 2328E | 2328 | 2406 | S17 | W38 | 4156 | 04 29.2 | 38D 1N | 1 V | | | | 310 | 4.2 | F |
| | LEAR | 01 2336E | 2342U | 2512 | S17 | W34 | 4156 | 04 29.5 | 96D 2N M 2.9 | 2 C | | | | 493 | | UF |
| | MITK | 01 2349E | 2529 | | S15 | W38 | 4156 | 04 29.2 | D 1N | C | | | | 370 | 5.0 | U |

56
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF | OMP | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | | | | |
|-------|------|------|------------|----------|----------|-----------------|-----------|------|-----------|------|------|-----------|------------------|--------|------|------|-----|------|-----|------|-------------------------|----------|
| | | | | | | | | | | | | | Cmd | Region | Mo | Day | Opt | Xray | Sec | Type | (10 ⁻⁶ Disk) | (Sq Deg) |
| 0020 | LEAR | 02 | 0159 | 0203 | 0224 | S11 | E36 | 4165 | 05 | 4.8 | 25 | SF | 3 | C | | | | | | 69 | | F |
| 0021 | LEAR | 02 | 0333 | 0335 | 0341 | S09 | E44 | 4165 | 05 | 5.4 | 8 | SF | 3 | C | | | | | | 26 | | |
| 0022 | LEAR | 02 | 0350 | 0356 | 0409 | S09 | E44 | 4165 | 05 | 5.5 | 19 | SN C | 1.3 | 3 | C | | | | | 48 | | |
| 0023 | ABST | 02 | 0443 | 0448 | 0500 | N19 | W55 | 4160 | 04 | 28.1 | 17 | SF | | | C | 0448 | | | | 87 | 1.6 | D |
| 0024 | ABST | 02 | 0446 | 0448 | 0452 | S04 | W33 | 4157 | 04 | 29.8 | 6 | SN | | | C | 0448 | | | | 87 | 1.0 | DK |
| 0025 | LEAR | 02 | 0512 | 0513 | 0516 | S11 | E39 | 4165 | 05 | 5.1 | 4 | SF | 3 | C | | | | | | 35 | | |
| 0026 | LEAR | 02 | 0553 | 0556 | 0610 | N18 | W53 | 4160 | 04 | 28.3 | 17 | SF C | 1.8 | 3 | C | | | | | 21 | | F |
| 0027 | G2 | 0636 | 0652 | 0715 | S11 | E32 | 4165 | 05 | 4.7 | 39 | SF | | | | | | | | | 20 | | |
| | LEAR | 02 | 0636 | 0652 | 0725 | S11 | E32 | 4165 | 05 | 4.7 | 49 | SF | | | C | | | | | 20 | | |
| | KANZ | 02 | 0650E | 0652 | 0705 | S11 | E32 | 4165 | 05 | 4.7 | 15D | SF | 2 | | | | | | | | | |
| 0028 | | 02 | 07471 | 08002 | 0815 | S10 | E41 | 4165 | 05 | 5.4 | 28 | SF C | 1.1 | | | | | | | 53 | | |
| | KANZ | 02 | 0747 | 0802 | 0817 | S10 | E40 | 4165 | 05 | 5.3 | 30 | SF | 2 | | | | | | | 53 | | |
| | LEAR | 02 | 0748 | 0800 | 0813 | S09 | E42 | 4165 | 05 | 5.5 | 25 | SF C | 1.1 | 3 | C | | | | | 53 | | |
| 0029 | | 02 | 0832* | 0852* | 0936D | S04 | W33 | 4157 | 04 | 30.0 | 64D | SN | | | | | | | | 43 | | |
| | KANZ | 02 | 0832 | 0852 | 0936D | S04 | W33 | 4157 | 04 | 30.0 | 64D | SN | 2 | | | | | | | 43 | | |
| | LEAR | 02 | 0845 | 0913 | 0913D | S03 | W33 | 4157 | 04 | 30.0 | 28D | SF | 3 | C | | | | | | 43 | | |
| 0030 | | 02 | 08361 | 08393 | 0854 | N18 | W54 | 4160 | 04 | 28.3 | 18 | SN | | | | | | | | 29 | | |
| | LEAR | 02 | 0836 | 0839 | 0845 | N18 | W54 | 4160 | 04 | 28.3 | 9 | SF | 3 | C | | | | | | 29 | | |
| | KANZ | 02 | 0837 | 0842 | 0902 | N18 | W55 | 4160 | 04 | 28.3 | 25 | SN | 2 | | | | | | | | | |
| 0031 | | 02 | 10166 | 10301 | 1031D | S09 | E40 | 4165 | 05 | 5.4 | 15D | SN | | | | | | | | 70 | | |
| | KANZ | 02 | 1016 | 1031 | 1031D | S09 | E40 | 4165 | 05 | 5.4 | 15D | SN | 3 | | | | | | | 70 | | |
| | MONT | 02 | 1022 | 1030 | 1030D | S09 | E41 | 4165 | 05 | 5.5 | 8D | SN | | C | 1030 | | | | | 70 | | |
| 0032 | | 02 | 1323* | 1328* | 1402 | S03 | W34 | 4157 | 04 | 30.0 | 39 | SF C | 1.8 | | | | | | | 44 | | F |
| | HOLL | 02 | 1323 | 1328 | 1349 | S02 | W34 | 4157 | 04 | 30.0 | 26 | SF | 3 | C | | | | | | 62 | | F |
| | HOLL | 02 | 1350 | 1355 | 1400 | S04 | W31 | 4157 | 04 | 30.2 | 10 | SF | 3 | C | | | | | | 50 | | |
| | HOLL | 02 | 1407 | 1417 | S03 | W36 | 4157 | 04 | 30.0 | 10 | SF C | 1.8 | 3 | C | | | | | | 20 | | F |
| 0033 | HOLL | 02 | 1351 | 1355 | 1404 | S11 | E34 | 4165 | 05 | 5.1 | 13 | SF | 3 | C | | | | | | 33 | | F |
| 0034 | HOLL | 02 | 1422 | 1430 | 1444 | S03 | W36 | 4157 | 04 | 30.0 | 22 | SF C | 1.9 | 3 | C | | | | | 58 | | |
| | | 02 | 1444 | | 1602 | No Flare Patrol | | | | | | | | | | | | | | | | |
| 0035 | HOLL | 02 | 1603E | 1628U | 1702 | S03 | W37 | 4157 | 04 | 30.0 | 59D | SF | 3 | C | | | | | | 71 | | F |
| 0036 | | 02 | 1715* | 1728 | 1731 | S04 | W38 | 4157 | 04 | 30.0 | 16 | SN C | 1.9 | | | | | | | 64 | | |
| | HOLL | 02 | 1715 | 1728 | 1748D | S03 | W37 | 4157 | 04 | 30.0 | 33D | SN C | 1.9 | 3 | C | | | | | 99 | | F |
| | PALE | 02 | 1727 | 1728 | 1731 | S04 | W39 | 4157 | 04 | 29.9 | 4 | SF C | 1.9 | 3 | C | | | | | 28 | | |
| | | 02 | 1801 | | 1810 | No Flare Patrol | | | | | | | | | | | | | | | | |
| | | 02 | 1822 | | 1827 | No Flare Patrol | | | | | | | | | | | | | | | | |
| | | 02 | 1855 | | 1933 | No Flare Patrol | | | | | | | | | | | | | | | | |
| 0037 | HOLL | 02 | 2013 | 2025 | 2025D | S02 | W41 | 4157 | 04 | 29.9 | 12D | SB C | 3.3 | 3 | C | | | | | 171 | | |
| | | 02 | 2041 | | 2054 | No Flare Patrol | | | | | | | | | | | | | | | | |
| | | 02 | 2119 | | 2128 | No Flare Patrol | | | | | | | | | | | | | | | | |
| | | 02 | 2140 | | 2159 | No Flare Patrol | | | | | | | | | | | | | | | | |
| 0038 | VORO | 02 | 2244E | | 2252 | S10 | W63 | 4154 | 04 | 28.3 | 8D | 1F | | | C | 2245 | | | | 161 | | BDHJ |
| 0039 | | 03 | 00114 | 00134 | 0038 | S20 | W52 | 4156 | 04 | 29.1 | 27 | SN C | 4.5 | | | | | | | 116 | 2.4 | EFJ |
| | CULG | 03 | 0011 | 0013 | 0030 | S21 | W50 | 4156 | 04 | 29.3 | 19 | SN | | | P | 0013 | | | | 60 | .9 | F |
| | VORO | 03 | 0011 | 0013 | 0034 | S21 | W52 | 4156 | 04 | 29.1 | 23 | IN | | | C | 0013 | | | | 170 | 3.3 | EJ |
| | LEAR | 03 | 0012 | 0014 | 0037 | S20 | W51 | 4156 | 04 | 29.2 | 25 | SN C | 4.5 | 3 | C | | | | | 76 | | F |
| | HOLL | 03 | 0012 | 0014 | 0038 | S18 | W53 | 4156 | 04 | 29.1 | 26 | SN C | 4.5 | 2 | C | | | | | 69 | | F |
| | PEKG | 03 | 0015E | 0015 | 0045 | S19 | W52 | 4156 | 04 | 29.1 | 30D | SN C | 4.5 | | P | 0015 | | | | 118 | 2.0 | E |
| | MANI | 03 | 0015 | 0017 | 0042 | S19 | W52 | 4156 | 04 | 29.1 | 27 | IB | 1 | V | | | | | | 200 | 3.4 | F |

H - ALPHA SOLAR FLARES

59
May 83

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF | | | Dur (Min) | Imp | Obs | Area Measurement | | | | | | | |
|-------|------|-----|------------|----------|----------|-----|-----------|--------|----|-----------|-----|-----|------------------|-------|-----|------|-----------|-----------------------|---------------|---------|
| | | | | | | | CMD | Region | Mo | Day | | | Opt | X-ray | Sec | Type | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks |
| 0040 | MANI | 03 | 0013 | 0013 | 0035 | S03 | W42 | 4157 | 04 | 30.0 | 22 | SF | 1 | V | | | 50 | .7 | | |
| 0041 | | 03 | 0058* | 01106 | 0137 | S11 | E30 | 4165 | 05 | 5.3 | 39 | SF | C | 2.0 | | | 168 | 2.3 | DFJ | |
| | MANI | 03 | 0058 | 0110 | 0141 | S11 | E30 | 4165 | 05 | 5.3 | 43 | SF | 1 | V | | | 64 | .8 | F | |
| | LEAR | 03 | 0058 | 0116 | 0141 | S11 | E30 | 4165 | 05 | 5.3 | 43 | SN | C | 2.0 | 3 | C | | 63 | F | |
| | VORO | 03 | 0113 | 0116 | 0129 | S11 | E30 | 4165 | 05 | 5.3 | 16 | 1F | | | | C | 0116 | 376 | 3.8 | DJ |
| 0042 | | 03 | 01021 | 0103* | 0122 | S03 | W41 | 4157 | 04 | 30.0 | 20 | SN | | | | | 104 | 2.6 | EJ | |
| | HOLL | 03 | 0102 | 0104 | 0119 | S03 | W41 | 4157 | 04 | 30.0 | 17 | SN | 2 | C | | | 21 | | F | |
| | VORO | 03 | 0102 | 0119 | 0121 | S03 | W42 | 4157 | 04 | 30.0 | 19 | 1F | | | | C | 0109 | 349 | 4.8 | EJ |
| | LEAR | 03 | 0103 | 0103 | 0118 | S03 | W40 | 4157 | 04 | 30.0 | 15 | SN | 3 | C | | | 27 | | | |
| | MANI | 03 | 0103 | 0116 | 0132 | S03 | W41 | 4157 | 04 | 30.0 | 29 | SF | 1 | V | | | 20 | .3 | F | |
| 0043 | LEAR | 03 | 0356 | 0400 | 0410 | S11 | E29 | 4165 | 05 | 5.3 | 14 | SF | 3 | C | | | 93 | | | |
| 0044 | LEAR | 03 | 0402 | 0406 | 0417 | S03 | W43 | 4157 | 04 | 30.0 | 15 | SF | C | 1.3 | 3 | C | | 42 | | |
| 0045 | | 03 | 04312 | 04321 | 0442 | S02 | W44 | 4157 | 04 | 30.0 | 11 | SN | C | 2.0 | | | 52 | .7 | FJ | |
| | CULG | 03 | 0431 | 0432 | 0439 | S03 | W43 | 4157 | 04 | 30.0 | 8 | SN | | | | C | 0432 | 50 | .7 | JF |
| | LEAR | 03 | 0433 | 0433 | 0446 | S02 | W45 | 4157 | 04 | 29.9 | 13 | SF | C | 2.0 | 3 | C | | 53 | | |
| 0046 | LEAR | 03 | 0536 | 0539 | 0548 | S11 | E28 | 4165 | 05 | 5.3 | 12 | SF | 3 | C | | | 21 | | | |
| 0047 | HTPR | 03 | 0633 | 0636 | 0645 | S11 | E28 | 4165 | 05 | 5.4 | 12 | SF | | | | C | 0636 | 60 | .7 | |
| 0048 | | 03 | 0705* | 0712* | 0738 | S04 | W46 | 4157 | 04 | 29.9 | 33 | SN | | | | | 30 | .4 | E | |
| | HTPR | 03 | 0705 | 0712 | 0740 | S05 | W45 | 4157 | 04 | 30.0 | 35 | SF | | | | C | 0712 | 30 | .4 | E |
| | KANZ | 03 | 0720 | 0726 | 0736 | S03 | W46 | 4157 | 04 | 30.0 | 16 | SN | | | | | | | | |
| 0049 | KANZ | 03 | 0746 | 0756 | 0816 | S03 | W45 | 4157 | 04 | 30.0 | 30 | SN | | | | 2 | | | | |
| 0050 | | 03 | 08066 | 0817* | 0857 | S10 | E28 | 4165 | 05 | 5.4 | 51 | SN | | | | | | 92 | 1.0 | E |
| | KANZ | 03 | 0806 | 0826 | 0856 | S10 | E27 | 4165 | 05 | 5.4 | 50 | SN | | | | 3 | | | | |
| | HTPR | 03 | 0812 | 0817 | 0858 | S11 | E28 | 4165 | 05 | 5.4 | 46 | SF | | | | C | 0817 | 100 | 1.1 | E |
| | CATA | 03 | 0840E | 0840 | 0840D | S08 | E28 | 4165 | 05 | 5.5 | 46D | S | | | | P | 0840 | 84 | 1.0 | |
| 0051 | HTPR | 03 | 0947 | 0950 | 0954 | S05 | W50 | 4157 | 04 | 29.8 | 7 | SF | | | | C | 0950 | 20 | .3 | |
| 0052 | | 03 | 1110 | 1113 | 1136 | S12 | E27 | 4165 | 05 | 5.5 | 26 | SN | | | | | | 40 | .4 | E |
| | HTPR | 03 | 1110 | | 1146D | S11 | E28 | 4165 | 05 | 5.6 | 36D | SN | | | | C | 1130 | 60 | .7 | E |
| | KAND | 03 | 1110 | 1113 | 1136 | S12 | E26 | 4165 | 05 | 5.4 | 26 | SF | | | | C | | 21 | .2 | E |
| 0053 | HTPR | 03 | 1225 | | 1309D | S04 | W67 | | 04 | 28.6 | 44D | SF | | | | C | 1241 | 20 | .4 | E |
| 0054 | | 03 | 13011 | 1304 | 1312 | S10 | E27 | 4165 | 05 | 5.6 | 11 | SN | | | | | | 32 | .4 | E |
| | KAND | 03 | 1301 | 1304 | 1312 | S09 | E27 | 4165 | 05 | 5.6 | 11 | SF | | | | C | | 33 | .4 | E |
| | HTPR | 03 | 1302 | | 1309D | S11 | E27 | 4165 | 05 | 5.6 | 7D | SN | | | | C | 1309 | 30 | .3 | |
| 0055 | HTPR | 03 | 1439 | 1444 | 1456 | S07 | E16 | 4165 | 05 | 4.8 | 17 | SF | | | | C | 1444 | 10 | .1 | |
| 0056 | HOLL | 03 | 2049 | 2051 | 2111 | S03 | W51 | 4157 | 04 | 30.0 | 22 | SF | C | 1.0 | 3 | C | | 21 | | F |
| 0057 | | 04 | 0521 | 0536 | 0616 | S03 | W57 | 4157 | 04 | 30.0 | 55 | SF | C | 2.1 | | | | 52 | 1.1 | E |
| | LEAR | 04 | 0521 | 0536 | 0605 | S02 | W55 | 4157 | 04 | 30.1 | 44 | SF | C | 2.1 | 3 | C | | 45 | | |
| | HTPR | 04 | 0549E | | 0613 | S02 | W58 | 4157 | 04 | 30.0 | 24D | SF | | | | C | 0557 | 80 | 1.6 | E |
| | HTPR | 04 | 0549E | | 0630 | S04 | W58 | 4157 | 04 | 30.0 | 41D | SF | | | | C | 0611 | 30 | .6 | E |
| 0058 | HTPR | 04 | 0549E | | 0616 | S16 | E66 | 4169 | 05 | 9.2 | 27D | SF | | | | C | 0557 | 20 | .4 | |
| 0059 | HTPR | 04 | 0549E | | 0620 | S10 | E10 | 4165 | 05 | 5.0 | 31D | SF | | | | C | 0555 | 60 | .6 | EI |
| 0060 | HTPR | 04 | 0619 | 0623 | 0726 | S13 | E66 | 4169 | 05 | 9.2 | 67 | SF | | | | C | 0623 | 20 | .4 | |
| 0061 | HTPR | 04 | 0814 | 0815 | 0824 | S11 | E11 | 4165 | 05 | 5.2 | 10 | SN | | | | C | 0815 | 30 | .3 | E |
| 0062 | HTPR | 04 | 0930E | | 0955 | N14 | E01 | 4167 | 05 | 4.5 | 25D | SF | | | | C | 0935 | 30 | .3 | E |
| 0063 | HTPR | 04 | 1121E | | 1125J | S16 | W72 | 4156 | 04 | 29.1 | 4D | SF | | | | C | 1121 | 20 | | |

60
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/ USAF CMD | | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | |
|----------|------|----------------------|-------------|-------------|----------------------|-----------------|-----------|------|------|--------------|------|----------|--------------|----------------------|----------------------|------|--------|
| | | | | | Lat | Region | OMP Mo | Day | Opt | | | | | (10^{-6} Disk) | Apparent (Sq Deg) | Corr | |
| 0064 | HTPR | 04 | 1133E | | 1137D | S14 | W01 | 4167 | 05 | 4.4 | 40 | SF | C | 1134 | 20 | .2 | |
| 0065 | HTPR | 04 | 1205E | | 1209 | S07 | E04 | 4165 | 05 | 4.8 | 40 | SF | C | 1207 | 20 | .2 | |
| 0066 | ATHN | 04 | 1230E | 1235 | 1241 | S10 | E15 | 4165 | 05 | 5.6 | 110 | SN | 4 | Y | 1235 | 95 | 1.0 |
| 0067 | ATHN | 04 | 1233E | 1237 | 1245 | S11 | E03 | 4165 | 05 | 4.7 | 120 | SN | 4 | Y | 1237 | 80 | .8 |
| 0068 | HTPR | 04 | 1340 | | 1533D | S15 | E30 | 4168 | 05 | 6.8 | 1130 | SN | C | 1450 | 100 | 1.1 | E |
| 0069 | HTPR | 04 | 1451 | | 1533D | N14 | W01 | 4167 | 05 | 4.5 | 420 | SF | C | 1504 | 40 | .4 | E |
| | | 04 | 1523 | | 1527 | No Flare Patrol | | | | | | | | | | | |
| | | 04 | 1534 | | 1555 | No Flare Patrol | | | | | | | | | | | |
| | | 04 | 1603 | | 1737 | No Flare Patrol | | | | | | | | | | | |
| | | 04 | 1751 | | 1950 | No Flare Patrol | | | | | | | | | | | |
| | | 04 | 2029 | | 2110 | No Flare Patrol | | | | | | | | | | | |
| 0070 | VORO | 05 | 00023 | 0005* | 0100 | S02 | W68 | 4157 | 04 | 30.0 | 58 | SN C 4.2 | | | 114 | .5 | DEF JK |
| | CULG | 05 | 0002 | 0005 | 0020 | S03 | W71 | 4157 | 04 | 29.8 | 52 | 1F | C | 0020 | 349 | DJK | |
| | HOLL | 05 | 0003 | 0005 | 0012 | S03 | W66 | 4157 | 04 | 30.1 | 9 | SN | C | 0005 | 20 | .5 | |
| | PALE | 05 | 0004 | 0005 | 0112 | N01 | W69 | 4157 | 04 | 29.9 | 68 | SB | 3 | C | 52 | FEK | |
| | PALE | 05 | 0004 | 0008U | 0101D | S04 | W68 | 4157 | 04 | 30.0 | 570 | SN C 4.2 | 3 | C | 74 | K | |
| | PALE | 05 | 0004 | 0004E | 0020 | S04 | W68 | 4157 | 04 | 30.0 | 570 | SN C 8.2 | 3 | C | 86 | K | |
| | HOLL | 05 | 0004 | 0004 | 0020 | 0112 | N01 | W69 | 4157 | 04 | 29.9 | 68 | 1N | 3 | C | 112 | K |
| | LEAR | 05 | 0005 | 0006 | 0114 | S03 | W67 | 4157 | 04 | 30.0 | 69 | SB C 4.2 | 3 | C | 64 | FEK | |
| | LEAR | 05 | 0005 | 0005 | 0021 | 0114 | S03 | W67 | 4157 | 04 | 30.0 | 69 | 1B C 8.2 | 3 | C | 153 | K |
| 0071 | LEAR | 05 | 0129 | 0130 | 0149 | S11 | E01 | 4165 | 05 | 5.1 | 20 | SF | 3 | C | 37 | | |
| 0072 | LEAR | 05 | 0158 | 0200 | 0203 | S14 | E21 | 4168 | 05 | 6.7 | 5 | SF | 3 | C | 30 | | |
| 0073 | LEAR | 05 | 0324 | 0338 | 0404 | S02 | W70 | 4157 | 04 | 30.0 | 40 | SN C 3.9 | 3 | C | 64 | F | |
| 0074 | LEAR | 05 | 06001 | 06013 | 0612 | S03 | W70 | 4157 | 04 | 30.0 | 12 | IN C 2.0 | | | 202 | 2.7 | E |
| | LEAR | 05 | 0600 | 0601 | 0614 | S03 | W71 | 4157 | 04 | 30.0 | 14 | IN C 2.0 | 3 | C | 141 | | |
| | TACH | 05 | 0601 | | 0610 | S04 | W70 | 4157 | 04 | 30.0 | 9 | 1N | | | 371 | | E |
| | ATHN | 05 | 0601 | 0604 | 0613 | S03 | W69 | 4157 | 04 | 30.1 | 12 | IN | 2 | V | 0604 | 95 | 2.7 |
| 0075 | KANZ | 05 | 0649 | 0657 | 0657D | S17 | W81 | 4156 | 04 | 29.2 | 80 | SN | : | | | | |
| 0076 | HTPR | 05 | 0710* | 0712* | 0726 | S32 | W70 | 4157 | 04 | 30.1 | 16 | SF C 1.9 | | | 28 | | |
| | HTPR | 05 | 0710 | | 0715D | S01 | W73 | 4157 | 04 | 29.9 | 50 | SF | C | 0712 | 30 | | |
| | LEAR | 05 | 0711 | 0712 | 0719 | S01 | W73 | 4157 | 04 | 29.9 | 8 | SN C 1.9 | 3 | C | | | |
| | KANZ | 05 | 0712 | 0712 | 0722 | S04 | W61 | 4157 | 04 | 30.7 | 10 | SF | 1 | | | | |
| | LEAR | 05 | 0722 | 0724 | 0736 | S02 | W71 | 4157 | 04 | 30.0 | 14 | SF | 3 | C | 25 | | |
| 0077 | KANZ | 05 | 0726 | 0734 | 0739 | S16 | W80 | 4156 | 04 | 29.3 | 13 | SN | 1 | | | | |
| 0078 | UNN | 05 | 0809 | 0811 | 0814D | S25 | E88 | 4171 | 05 | 12.1 | 50 | 1N | P | | 94 | A | |
| 0079 | KANZ | 05 | 1113 | 1118 | 1118D | S16 | W80 | 4156 | 04 | 29.5 | 50 | SN | 1 | | | | |
| 0080 | RAMY | 05 | 1144 | 1151 | 1208 | S14 | E16 | 4168 | 05 | 6.7 | 24 | SF C 1.8 | 3 | C | 38 | | |
| 0081 | HTPR | 05 | 1414 | 1424 | 1430 | S17 | E90 | 4172 | 05 | 12.4 | 16 | SN | C | 1424 | 30 | | |
| 0082 | HOLL | 05 | 1431 | 1432 | 1442 | S01 | W77 | 4157 | 04 | 29.9 | 11 | SN C 2.2 | 3 | C | 26 | | |
| 0083 | HOLL | 05 | 1916 | 1917 | 1923 | N00 | W80 | 4157 | 04 | 29.9 | 7 | SN | 3 | C | 20 | | |
| 0084 | HOLL | 05 | 1919 | 1919 | 1922 | S10 | W09 | 4165 | 05 | 5.1 | 3 | SF | 3 | C | 40 | | |
| 0085 | HOLL | 05 | 2139 | 2141 | 2152 | S09 | W09 | 4165 | 05 | 5.2 | 13 | SF | 3 | C | 58 | F | |
| 0086 | PALE | 05 | 2256 | 2257 | 2305 | S28 | E89 | 4171 | 05 | 12.9 | 9 | SN C 4.3 | 3 | C | 33 | | |
| 0087 | CULG | 05 | 2346E | 2346 | 2406 | S11 | W12 | 4165 | 05 | 5.1 | 28 | SF | | | 62 | .6 | F |
| | LEAR | 06 | 0002 | 0008 | 0053 | S10 | W12 | 4165 | 05 | 5.1 | 200 | SF | P | 2346 | 60 | .6 | F |
| | | | | | | | | | | 51 | SF | 3 | C | 65 | | | |

H - ALPHA SOLAR FLARES

61
May 83

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/USAF | | | | | | Dur (Min) | Imp Opt | Area Measurement | | | | | | |
|-------|------|----------------|----------|----------|-----------|-----------------|--------|------|-----|------|-----------|----------|------------------|-----------------------|---------------|---------|-----|------|---|
| | | | | | Lat | CMD | Region | Mo | Day | Obs | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | | | |
| 0088 | MANI | 06 | 0242E | 0245 | 0251 | S25 | E88 | 4171 | 05 | 12.9 | 90 | SN | 1 | V | | | | | |
| 0089 | CULG | 06 | 0331 | 0336 | 0339 | S08 | W17 | 4165 | 05 | 4.9 | 8 | SF | | C | 0336 | 40 | .4 | | |
| 0090 | | 06 | 04021 | 04033 | 0413 | S08 | W19 | 4165 | 05 | 4.7 | 11 | SN | | | | 60 | .7 | EFKV | |
| | CULG | 06 | 0402 | 0403 | 0406 | S08 | W18 | 4165 | 05 | 4.8 | 4 | SN | | C | 0403 | 30 | .4 | F | |
| | PEKG | 06 | 0402 | 0405 | 0409 | S07 | W19 | 4165 | 05 | 4.7 | 7 | SN | | C | 0405 | 63 | .7 | E | |
| | PURP | 06 | 0403 | 0404 | 0411 | S09 | W19 | 4165 | 05 | 4.7 | 8 | SN | | C | 0404 | 28 | .3 | E | |
| | ABST | 06 | 0403 | 0404 | 0418 | S08 | W20 | 4165 | 05 | 4.7 | 15 | SN | | C | 0404 | 131 | 1.4 | EKV | |
| | LEAR | 06 | 0403 | 0406 | 0422 | S08 | W18 | 4165 | 05 | 4.8 | 19 | SN | 3 | C | | 47 | | | |
| 0091 | ABST | 06 | 0543 | 0545 | 0550 | S10 | W20 | 4170 | 05 | 4.7 | 7 | SN | | C | 0545 | 131 | 1.4 | E | |
| 0092 | | 06 | 06033 | 06104 | 0624 | S10 | W20 | 4165 | 05 | 4.7 | 21 | SN | | | | 64 | .7 | EF | |
| | LEAR | 06 | 0603 | 0610 | 0624 | S10 | W20 | 4165 | 05 | 4.7 | 21 | SN | 3 | C | | 52 | | F | |
| | MANI | 06 | 0603 | 0613 | 0625 | S10 | W19 | 4165 | 05 | 4.8 | 22 | SN | 1 | V | | 45 | .5 | | |
| | ATHN | 06 | 0605 | 0614 | 0625 | S09 | W19 | 4165 | 05 | 4.8 | 20 | SN | 3 | V | 0614 | 32 | .4 | | |
| | ABST | 06 | 0606 | 0610 | 0626 | S11 | W20 | 4165 | 05 | 4.7 | 20 | SN | | C | 0610 | 131 | 1.4 | E | |
| | PEKG | 06 | 0612E | 0612E | 0625 | S10 | W21 | 4165 | 05 | 4.7 | 13D | SN | | P | 0612 | 46 | .5 | E | |
| | YUNN | 03 | 0615E | 0615U | 0616 | S11 | W20 | 4165 | 05 | 4.7 | 1D | SF | | P | 0615 | 79 | .9 | | |
| 0093 | | 06 | 0750 | 0750 | 0803 | S10 | W20 | 4165 | 05 | 4.8 | 13 | SF | | | | 32 | .4 | EF | |
| | LEAR | 06 | 0750 | 0750 | 0803 | S10 | W21 | 4165 | 05 | 4.7 | 13 | SF | 3 | C | 0930 | 25 | | F | |
| | HTPR | 06 | 0859E | | 0938D | S10 | W20 | 4165 | 05 | 4.9 | 39D | SF | | C | | 40 | .4 | E | |
| 0094 | HTPR | 06 | 0859E | | 0906 | S15 | E05 | 4168 | 05 | 6.7 | 7D | SF | | C | 0902 | 10 | .1 | | |
| 0095 | HTPR | 06 | 1026 | 1031 | 1037 | S15 | E04 | 4168 | 05 | 6.7 | 11 | SN | | C | 1031 | 30 | .3 | | |
| 0096 | RAMY | 06 | 1055 | 1103 | 1121 | S11 | W21 | 4.55 | 05 | 4.9 | 26 | SN | C | 1.8 | 3 | C | | 62 | |
| 0097 | KANZ | 06 | 1233 | 1233 | 1238 | S10 | W22 | 4170 | 05 | 4.9 | 5 | SF | | 2 | | | | | |
| 0098 | HOLL | 06 | 1353 | 1412 | 1448 | S10 | W26 | 4165 | 05 | 4.6 | 55 | SF | | 3 | C | | 81 | | H |
| 0099 | | 06 | 1528 | 1533 | 1558 | S10 | W23 | 4165 | 05 | 4.9 | 30 | SN | | | | 65 | | F | |
| | HOLL | 06 | 1528 | 1533 | 1556 | S09 | W23 | 4165 | 05 | 4.9 | 28 | SN | 3 | C | | 73 | | F | |
| | RAMY | 06 | 1528 | 1533 | 1601 | S10 | W22 | 4165 | 05 | 5.0 | 33 | SN | 3 | C | | 57 | | | |
| | KANZ | 06 | 1541E | | 1542D | S10 | W23 | 4165 | 05 | 4.9 | 1D | SN | 1 | | | | | | |
| 0100 | | 06 | 16072 | 16112 | 1625 | S10 | W20 | 4165 | 05 | 5.2 | 18 | SF | | | | 48 | | F | |
| | RAMY | 06 | 1607 | 1613 | 1632 | S10 | W21 | 4165 | 05 | 5.1 | 25 | SF | 3 | C | | 74 | | | |
| | HOLL | 06 | 1609 | 1611 | 1618 | S10 | W20 | 4165 | 05 | 5.2 | 9 | SF | 3 | C | | 22 | | F | |
| | | 06 | 2010 | | 2014 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 2038 | | 2040 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 2113 | | 2116 | No Flare Patrol | | | | | | | | | | | | | |
| 0101 | PALE | 06 | 2216 | 2217 | 2250D | S15 | W03 | 4168 | 05 | 6.7 | 34D | SF | 3 | C | | 27 | | | |
| 0102 | CULG | 06 | 2229 | 2230 | 2243 | S11 | W30 | 4170 | 05 | 4.7 | 14 | SN | | C | 2230 | 30 | .3 | | |
| 0103 | CULG | 06 | 2337 | 2337U | 2345D | S11 | W30 | 4170 | 05 | 4.7 | 8D | SN | | P | 2337 | 40 | .5 | | |
| 0104 | CULG | 07 | 0118 | 0119 | 0123 | S08 | E81 | 4172 | 05 | 13.1 | 5 | SF | | C | 0119 | 30 | | | |
| 0105 | PALE | 07 | 01293 | 01344 | 0155 | S25 | E75 | 4171 | 05 | 12.9 | 26 | SF C 1.8 | | | | 52 | | | |
| | PALE | 07 | 0129 | 0134 | 0203 | S26 | E77 | 4171 | 05 | 13.0 | 34 | SN C 1.8 | 3 | C | | 33 | | | |
| | LEAR | 07 | 0131 | 0138 | 0201 | S27 | E75 | 4171 | 05 | 12.9 | 30 | SF C 1.8 | 3 | C | | | | | |
| | CULG | 07 | 0132 | 0134 | 0141 | S22 | E74 | 4171 | 05 | 12.7 | 9 | 1F | | C | 0134 | 70 | | | |
| 0106 | PALE | 07 | 0251 | 0251 | 0300 | S09 | W27 | 4165 | 05 | 5.1 | 9 | SF | 3 | C | | 27 | | | |
| 0107 | LEAR | 07 | 0310 | 0311 | 0323 | S09 | W29 | 4165 | 05 | 4.9 | 13 | SF C 1.0 | 3 | C | | 36 | | | |
| 0108 | | 07 | 03312 | 03332 | 0340 | S10 | W32 | 4165 | 05 | 4.7 | 9 | SN | | | | 53 | .6 | D | |
| | CULG | 07 | 0331 | 0333 | 0342 | S11 | W32 | 4165 | 05 | 4.7 | 11 | SN | | C | 0333 | 60 | .7 | | |
| | LEAR | 07 | 0333 | 0334 | 0339 | S10 | W32 | 4165 | 05 | 4.7 | 6 | SN | 3 | C | | 50 | | | |
| | PEKG | 07 | 0333 | 0335 | 0339 | S09 | W33 | 4165 | 05 | 4.7 | 6 | SF | | C | 0335 | 50 | .6 | D | |

62
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/USAF | | | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | Remarks |
|-------|------|----------------|----------|----------|-----------------|------|--------|------|------|----------|-----------|-----|------|-----------|-------------------------|----------|--------|---------|
| | | | | | Lat | CMO | Region | Mo | Day | Opt | | | | | (10 ⁻⁶ Disk) | Apparent | Corr | |
| 0109 | ABST | 07 0454 | 0455 | 0458 | 50N | W30 | 4165 | 05 | 4.9 | 4 | SF | | C | 0455 | 87 | 1.0 | DHV | |
| 0110 | ABST | 07 0530 | 0533 | 0545 | N13 | W41 | 4167 | 05 | 4.1 | 15 | IN | | C | 0533 | 174 | 2.6 | EK | |
| 0111 | CATA | 07 0615E | 0615 | 0620 | S35 | E77 | 4171 | 05 | 13.4 | 50 | 1 | | P | 0615 | 56 | | | |
| 0112 | CATA | 07 07405 | 07407 | 0800 | S29 | E74 | 4171 | 05 | 13.1 | 20 | S8 M 1.0 | | C | 0740 | 75 | | E | |
| | CATA | 07 0740 | 0740 | 0755 | S29 | E75 | 4171 | 05 | 13.2 | 15 | 1 | | | | 112 | | | |
| | ISTA | 07 0743 | 0759 | S29 | E75 | 4171 | 05 | 13.2 | 16 | SB | | | | | | | | |
| | LEAR | 07 0743 | 0746 | 0811 | S28 | E72 | 4171 | 05 | 12.9 | 28 | S8 M 1.0 | 3 | C | 0747 | 38 | | E | |
| | PEKG | 07 0745 | 0747 | 0755 | S29 | E73 | 4171 | 05 | 13.0 | 10 | SN M 1.0 | | C | | | | | |
| 0113 | CATA | 07 1040 | 1045 | 10450 | S36 | E74 | 4171 | 05 | 13.4 | 50 | 1 | | P | 1045 | 112 | | | |
| | | 07 1046 | | 1059 | No Flare Patrol | | | | | | | | | | | | | |
| 0114 | RAMY | 07 1103 | 1129* | 1227 | S28 | E71 | 4171 | 05 | 13.0 | 84 | SN | | | | 30 | | K | |
| | RAMY | 07 1103 | 1129 | 1227 | S28 | E71 | 4171 | 05 | 13.0 | 84 | SF | 3 | C | | 32 | | K | |
| | RAMY | 07 1103 | 1147 | 1227 | S28 | E71 | 4171 | 05 | 13.0 | 84 | SN | 3 | C | | 28 | | K | |
| | | 07 1135 | | 1144 | No Flare Patrol | | | | | | | | | | | | | |
| 0115 | HOLL | 07 1449 | 1502 | 1510 | S09 | W37 | 4165 | 05 | 4.8 | 21 | SF | 3 | C | | 30 | | | |
| 0116 | HOLL | 07 1524* | 1524* | 1538 | S29 | E70 | 4171 | 05 | 13.1 | 14 | SN C 1.9 | | | | 12 | | S | |
| | HOLL | 07 1524 | 1524 | 1552 | S29 | E71 | 4171 | 05 | 13.2 | 8 | SN | 3 | C | | 14 | | S | |
| | RAMY | 07 1529 | 1534 | 1555 | S28 | E71 | 4171 | 05 | 13.2 | 6 | SF | 3 | C | | 11 | | | |
| | HOLL | 07 1539 | 1541 | 1548 | S29 | E69 | 4171 | 05 | 13.1 | 9 | SN C 1.9 | 3 | C | | 10 | | | |
| 0117 | HOLL | 07 1714 | 1716 | 1727 | S29 | E68 | 4171 | 05 | 13.0 | 13 | S8 C 4.2 | 3 | C | | 44 | | | |
| 0118 | HOLL | 07 1759 | 1759 | 1808 | S09 | W35 | 4165 | 05 | 5.1 | 9 | SF | 3 | C | | 28 | | | |
| 0119 | HOLL | 07 1905 | 19207 | 19300 | S29 | E66 | 4171 | 05 | 13.0 | 250 | 1B C 8.0 | | | | 101 | | FKZ | |
| | HOLL | 07 1905 | 1920 | 19300 | S29 | E66 | 4171 | 05 | 13.0 | 250 | 1B | 3 | C | | 94 | | K | |
| | HOLL | 07 1905 | 1927 | 19300 | S29 | E66 | 4171 | 05 | 13.0 | 250 | 1B C 8.0 | 3 | C | | 108 | | ZFK | |
| 0120 | HOLL | 07 2014 | 2022 | 2028 | S29 | E66 | 4171 | 05 | 13.0 | 14 | SF C 1.4 | 3 | C | | 49 | | | |
| 0121 | PALE | 07 2103 | 2107 | 2114 | N14 | W48 | 4167 | 05 | 4.2 | 11 | SF | | | | 40 | | | |
| | HOLL | 07 2107 | 2107 | 2114 | N14 | W47 | 4167 | 05 | 4.3 | 11 | SF | 3 | C | | 38 | | | |
| | | 07 2107 | 2107 | 2113 | N15 | W50 | 4167 | 05 | 4.1 | 6 | SF | 3 | C | | 42 | | | |
| 0122 | HOLL | 07 2143 | 2148 | 2159 | N13 | W49 | 4167 | 05 | 4.2 | 16 | SF | 3 | C | | 34 | | | |
| 0123 | CULG | 07 2201 | 22071 | 2224 | S16 | W24 | 4168 | 05 | 6.1 | 17 | SN | | | | 28 | .2 | F | |
| | CULG | 07 2207 | 2207 | 2218 | S17 | W23 | 4168 | 05 | 6.2 | 11 | SN | 3 | C | 2207 | 20 | .2 | | |
| | HOLL | 07 2208 | 2208 | 2231 | S15 | W24 | 4168 | 05 | 6.1 | 23 | SN | 3 | C | | 37 | | F | |
| 0124 | MANI | 07 2216* | 2216* | 2301 | S29 | E66 | 4171 | 05 | 13.1 | 45 | 2B X 3.1 | | | | 458 | 10.8 | EFMZ | |
| | HOLL | 07 2216 | 2216 | 2305 | S30 | E67 | 4171 | 05 | 13.2 | 49 | 2B | 1 | V | | 550 | 11.6 | MZ | |
| | CULG | 07 2217 | 2222 | 2241 | S27 | E64 | 4171 | 05 | 13.2 | 44 | 2B X 3.1 | 3 | C | | 546 | | Z | |
| | PALE | 07 2218 | 2220 | 2304 | S31 | E68 | 4171 | 05 | 12.9 | 24 | 2B | | | 2222 | 420 | 10.0 | ZE | |
| | MITK | 07 2227E | 2322 | S26 | E67 | 4171 | 05 | 13.3 | 46 | 2B X 3.1 | 3 | C | | 559 | | Z | | |
| | HOLL | 07 2310 | 2310 | 2317 | S30 | E63 | 4171 | 05 | 12.9 | 7 | SN | 3 | C | 2227 | 650 | | F | |
| | | | | | | | | | | | | | | | 25 | | | |
| 0125 | PALE | 07 2258 | 2300 | 2309 | N14 | W48 | 4167 | 05 | 4.3 | 11 | SF | 3 | C | | 17 | | | |
| 0126 | HOLL | 07 2359* | 24057 | 2443 | S13 | W27 | 4168 | 05 | 6.0 | 44 | SN C 1.9 | | | | 98 | 1.1 | EFHJ | |
| | LEAR | 08 0002 | 0005 | 0054 | S13 | W25 | 4168 | 05 | 5.8 | 63 | SN | 3 | C | | 142 | | F | |
| | MANI | 08 0003 | 0005 | 0054 | S12 | W28 | 4168 | 05 | 5.9 | 31 | SN | 1 | V | | 90 | | FH | |
| | PALE | 08 0003 | 0005 | 0045 | S12 | W26 | 4168 | 05 | 6.0 | 42 | SN C 1.9 | 3 | C | | 55 | .6 | F | |
| | CULG | 08 0005E | 00050 | 00050 | S14 | W26 | 4168 | 05 | 6.0 | 420 | SN | P | 0005 | | 150 | 1.6 | J | |
| | PEKG | 08 0010 | 0012 | 0022 | S12 | W28 | 4168 | 05 | 5.9 | 12 | SF | C | 0012 | | 105 | 1.2 | E | |
| 0127 | LEAR | 08 0224* | 0224* | 0430 | S30 | E61 | 4171 | 05 | 12.9 | 126 | 2N X 1.3 | | | | 705 | 14.2 | EFIKUZ | |
| | CULG | 08 0224E | 0228 | 0233 | S27 | E60 | 4171 | 05 | 12.8 | 90 | SF | 3 | C | 0228 | 60 | 1.2 | K | |
| | LEAR | 08 0224 | 0317 | 09130 | S31 | E62 | 4171 | 05 | 13.0 | 4090 | 2B X 1.3 | 3 | C | | 851 | | ZUK | |
| | PEKG | 08 0225 | 0226 | 0231 | S30 | E62 | 4171 | 05 | 13.0 | 6 | SF | | | 0226 | 126 | | F | |
| | CULG | 08 0248 | 0316U | 0555 | S28 | E60 | 4171 | 05 | 12.8 | 167 | 2B | P | 0316 | | 570 | 12.5 | UIE | |
| | MANI | 08 0250 | 0300 | 0513 | S30 | E62 | 4171 | 05 | 13.0 | 143 | 2B | 1 | V | | 455 | 9.4 | FU | |
| | MANI | 08 0250 | 0308 | 0513 | S30 | E62 | 4171 | 05 | 13.0 | 143 | 2B | 1 | V | | 730 | 15.1 | FU | |
| | PALE | 08 0255 | 0303 | 04030 | S31 | E59 | 4171 | 05 | 12.8 | 680 | 2B | 3 | C | | 755 | | K | |
| | YUNN | 08 0255 | 0324 | 04160 | S30 | E62 | 4171 | 05 | 13.0 | 810 | 4B | | | | 1385 | 32.8 | U | |
| | PALE | 08 0255 | 0325 | 04030 | S31 | E59 | 4171 | 05 | 12.8 | 680 | 2B | 3 | C | | 887 | | ZUK | |
| | PEKG | 08 0257 | 0305 | 0448 | S31 | E61 | 4171 | 05 | 12.9 | 111 | 2N | C | 0305 | | 223 | 5.2 | FKU | |
| | PEKG | 08 0257 | 0315 | 0448 | S30 | E60 | 4171 | 05 | 12.8 | 111 | 2B | C | 0315 | | 465 | 10.8 | FU | |
| | PURP | 08 0303 | 0327 | 06310 | S30 | E62 | 4171 | 05 | 13.0 | 2080 | 3N | C | 0327 | | 703 | 16.7 | | |
| | KODA | 08 0322E | 0323 | 03480 | S30 | E60 | 4171 | 05 | 12.8 | 260 | 4B | P | 0333 | | 2958 | 30.5 | U | |
| | MITK | 08 0355E | 0425 | 0518 | S30 | E58 | 4171 | 05 | 12.7 | 830 | 2N | C | 0425 | | 360 | 7.8 | E | |

H - ALPHA SOLAR FLARES

63
May 83

MAY 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | |
|-------|------|-----------|----------|----------|-----------|-----|--------|----|------|-----------|----------|-----|-----------|------------------|-------|------|------|----------------------------------|---------------|---------|
| | | | | | Lat | CMD | Region | Mo | Day | | | | | Opt | X-ray | See | Type | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks |
| 0128 | CULG | 08 02452 | 02501 | 0302 | S17 | E18 | 4173 | 05 | 9.5 | 17 | SN | | | | | | 56 | .7 | | |
| | LEAR | 08 0245 | 0251 | 0301 | S17 | E17 | 4173 | 05 | 9.4 | 16 | SN | | | | | | 70 | .7 | | |
| | LEAR | 08 0247 | 0250 | 0302 | S17 | E18 | 4173 | 05 | 9.5 | 15 | SF | 3 | C | | | | ? | | | |
| 0129 | YUNN | 08 0248E | 0248U | 0251 | N15 | W50 | 4167 | 05 | 4.3 | 30 | SN | | | | P | | 0248 | 94 | 1.6 | |
| 0130 | LEAR | 08 0505 | 0508 | 0513 | S11 | E15 | 4173 | 05 | 9.3 | 8 | SF | 3 | C | | | | 29 | | | |
| 0131 | LEAR | 08 0629* | 06489 | 0702 | N13 | W54 | 4167 | 05 | 4.2 | 33 | SF | | | | | | 22 | | | |
| | LEAR | 08 0629 | 0648 | 0653 | N12 | W53 | 4167 | 05 | 4.3 | 24 | SF | 3 | C | | | | 19 | | | |
| | LEAR | 08 0656 | 0657 | 0711 | N14 | W54 | 4167 | 05 | 4.2 | 15 | SF | 3 | C | | | | 26 | | | |
| 0132 | LEAR | 08 0724 | 0727 | 0739 | S09 | E64 | 4172 | 05 | 13.1 | 15 | SF | 3 | C | | | | 35 | | | |
| 0133 | CATA | 08 0725E | 0725 | 07250 | S32 | E55 | 4171 | 05 | 12.7 | 150 | 2 | | | | P | | 0725 | 337 | 6.7 | |
| 0134 | ATHN | 08 1143E | 1148 | 1152 | S30 | E63 | 4171 | 05 | 13.4 | 90 | 18 | 3 | V | | | | 1148 | 127 | 2.8 | |
| 0135 | HOLL | 08 1453 | 1455 | 1517 | N16 | W56 | 4167 | 05 | 4.4 | 24 | SN | 3 | C | | | | 19 | | | |
| 0136 | HOLL | 08 1735 | 1737 | 1742 | S11 | E59 | 4172 | 05 | 13.2 | 7 | SF | 3 | C | | | | 29 | | | |
| 0137 | HOLL | 08 1900 | 1901 | 1905 | N13 | W58 | 4167 | 05 | 4.4 | 5 | SF | 3 | C | | | | 17 | | | |
| 0138 | HOLL | 08 19139 | 19212 | 1930 | S28 | E54 | 4171 | 05 | 13.0 | 17 | SN C 2.1 | | | | | | 31 | | | |
| | PALE | 08 1913 | 1921 | 1933 | S28 | E54 | 4171 | 05 | 13.0 | 20 | SN C 2.1 | 3 | C | | | | 39 | | | |
| | PALE | 08 1922 | 1923 | 1927 | S29 | E55 | 4171 | 05 | 13.1 | 5 | SF C 2.1 | 3 | C | | | | 23 | | | |
| 0139 | HOLL | 08 19511 | 19522 | 2002 | S30 | E54 | 4171 | 05 | 13.1 | 11 | SN C 1.9 | | | | | | 86 | | F | |
| | PALE | 08 1951 | 1952 | 2003 | S29 | E53 | 4171 | 05 | 13.0 | 12 | SN C 1.9 | 3 | C | | | | 65 | | F | |
| | PALE | 08 1952 | 1954 | 2000 | S30 | E54 | 4171 | 05 | 13.1 | 8 | SN C 1.9 | 3 | C | | | | 107 | | | |
| 0140 | PALE | 08 1959 | 2010 | 2028 | S11 | E55 | 4172 | 05 | 13.0 | 29 | SF | 3 | C | | | | 44 | | | |
| 0141 | PALE | 08 2227 | 22306 | 2247 | S08 | W55 | 4165 | 05 | 4.8 | 20 | SF C 1.2 | | | | | | 22 | | K | |
| | PALE | 08 2227 | 2230 | 2247 | S08 | W55 | 4165 | 05 | 4.8 | 20 | SF | 3 | C | | | | 18 | | K | |
| | PALE | 08 2227 | 2236 | 2247 | S08 | W55 | 4165 | 05 | 4.8 | 20 | SF C 1.2 | 3 | C | | | | 25 | | K | |
| 0142 | MANI | 08 2300 | 23003 | 2309 | S10 | E54 | 4172 | 05 | 13.0 | 9 | SF | | | | | | 22 | .3 | | |
| | MANI | 08 2300 | 2300 | 2312 | S10 | E54 | 4172 | 05 | 13.0 | 12 | SF | 1 | V | | | | 20 | .3 | | |
| | PALE | 08 2300 | 2303 | 2306 | S10 | E54 | 4172 | 05 | 13.0 | 6 | SF | 3 | C | | | | 24 | | | |
| 0143 | HOLL | 08 23131 | 23141 | 2324 | N14 | W62 | 4167 | 05 | 4.3 | 11 | SF | | | | | | 45 | .9 | | |
| | HOLL | 08 2313 | 2314 | 2324 | N17 | W61 | 4167 | 05 | 4.3 | 11 | SF | 3 | C | | | | 40 | | | |
| | MANI | 08 2314 | 2314 | 2324 | N13 | W62 | 4167 | 05 | 4.3 | 10 | SF | 1 | V | | | | 45 | | .9 | |
| | PALE | 08 2314 | 2315 | 2324 | N13 | W62 | 4167 | 05 | 4.3 | 10 | SF | 3 | C | | | | 50 | | | |
| 0144 | PALE | 08 2315 | 2316 | 2325 | S09 | W55 | 4165 | 05 | 4.8 | 10 | SF | 3 | C | | | | 51 | | | |
| 0145 | LEAR | 08 2340* | 24031 | 2415 | S11 | E54 | 4172 | 05 | 13.0 | 35 | SF | | | | | | 77 | .7 | | |
| | PALE | 08 2340 | 2403 | 2429 | S10 | E55 | 4172 | 05 | 13.1 | 49 | SF | 3 | C | | | | 150 | | | |
| | MANI | 09 0003 | 0003 | 0008 | S12 | E53 | 4172 | 05 | 13.0 | 5 | SF | 3 | C | | | | 42 | | | |
| | MANI | 09 0004 | 0004 | 0008 | S12 | E53 | 4172 | 05 | 13.0 | 4 | SF | 1 | V | | | | 40 | .7 | | |
| 0146 | LEAR | 08 2340* | 24162 | 2428 | S28 | E51 | 4171 | 05 | 13.0 | 48 | SN C 1.3 | | | | | | 104 | 1.8 | F | |
| | LEAR | 08 2340 | 2417 | 2444 | S28 | E52 | 4171 | 05 | 13.0 | 64 | IN C 1.3 | 3 | C | | | | 156 | | | |
| | MANI | 08 2340 | 2418 | 2437D | S28 | E52 | 4171 | 05 | 13.0 | 57D | IN | 1 | V | | | | 154 | 2.7 | F | |
| | HOLL | 09 0015 | 0016 | 0022 | S29 | E50 | 4171 | 05 | 12.9 | 7 | SN | 3 | C | | | | 71 | | F | |
| | PALE | 09 0015 | 0017 | 0024 | S30 | E51 | 4171 | 05 | 13.0 | 9 | SN | 3 | C | | | | 88 | | F | |
| | CULG | 09 0016 | 0017 | 0021 | S27 | E51 | 4171 | 05 | 13.0 | 5 | SF | | | | | 0017 | 50 | .8 | | |
| 0147 | LEAR | 09 0029 | 0029 | 0048 | S14 | W32 | 4168 | 05 | 6.6 | 19 | SF | 3 | C | | | | 23 | | | |
| 0148 | LEAR | 09 00352 | 00364 | 0046 | N16 | W62 | 4167 | 05 | 4.3 | 11 | SF | | | | | | 30 | | | |
| | LEAR | 09 0035 | 0036 | 0046 | N15 | W61 | 4167 | 05 | 4.4 | 11 | SF | 3 | C | | | | 17 | | | |
| | HOLL | 09 0036 | 0037 | 0048 | N17 | W64 | 4167 | 05 | 4.2 | 12 | SF | 3 | C | | | | 14 | | | |
| | PALE | 09 0037 | 0040 | 0045 | N16 | W62 | 4167 | 05 | 4.3 | 8 | SF | 3 | C | | | | 60 | | | |

64
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | |
|-------|------|-----------|----------|----------|-----------|-----|--------|------------|-----------|----------|-----|-----------|-----------------------|---------------|---------|
| | | | | | Lat | CHD | Region | OMP Mo Day | | | | | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks |
| 0149 | | 09 0109* | 0112* | 0130 | S11 | E52 | 4172 | 05 13.0 | 21 | SF C 2.3 | | | 66 | | F |
| | HOLL | 09 0109 | 0112 | 0124 | S10 | E52 | 4172 | 05 12.9 | 15 | SF C 2.3 | 3 | C | 37 | | F |
| | PALE | 09 0130 | 0133 | 0136 | S12 | E52 | 4172 | 05 13.0 | 6 | SF | 3 | C | 96 | | F |
| 0150 | | 09 01555 | 0202 | 0210 | S10 | E52 | 4172 | 05 13.0 | 15 | SF C 5.6 | | | 30 | | |
| | PALE | 09 0155 | 0159U | 0212 | S12 | E53 | 4172 | 05 13.1 | 17 | SF C 5.6 | 3 | C | 39 | | |
| | LEAR | 09 0200 | 0202 | 0209 | S09 | E52 | 4172 | 05 13.0 | 9 | SF C 5.6 | 3 | C | 21 | | |
| 0151 | PALE | 09 0227 | 0231 | 0236 | S11 | E52 | 4172 | 05 13.0 | 9 | SF | 3 | C | 43 | | |
| 0152 | PALE | 09 0227 | 0233 | 0240 | S30 | E50 | 4171 | 05 13.0 | 13 | SF | 3 | C | 40 | | F |
| 0153 | LEAR | 09 0233 | 0233 | 0243 | N12 | W64 | 4167 | 05 4.3 | 10 | SF | 3 | C | 27 | | |
| 0154 | | 09 03011 | 03021 | 0312 | S29 | E50 | 4171 | 05 13.0 | 11 | SN C 2.0 | | | 60 | .9 | F |
| | CULG | 09 0301 | 0302 | 0304 | S26 | E50 | 4171 | 05 13.0 | 3 | SF | | C | 60 | .9 | F |
| | PALE | 09 0302 | 0303 | 0320 | S29 | E50 | 4171 | 05 13.0 | 18 | SN C 2.0 | 3 | C | 61 | | F |
| 0155 | LEAR | 09 0407 | 0407 | 0410 | S28 | E50 | 4171 | 05 13.1 | 3 | SF | 3 | C | 25 | | |
| 0156 | LEAR | 09 0427 | 0431 | 0441 | S10 | E51 | 4172 | 05 13.0 | 14 | SN C 2.5 | 3 | C | 26 | | |
| 0157 | | 09 0531 | 0536 | 0546 | S10 | E52 | 4172 | 05 13.1 | 15 | SN C 4.8 | | | 72 | 1.2 | EF |
| | LEAR | 09 0531 | 0536 | 0549 | S11 | E52 | 4172 | 05 13.1 | 18 | SN C 4.8 | 3 | C | 69 | | F |
| | PEKG | 09 0535E | 0536 | 0544 | S10 | E51 | 4172 | 05 13.1 | 90 | SN C 4.8 | P | 0536 | 76 | 1.2 | E |
| 0158 | | 09 06233 | 06271 | 0640 | S10 | E50 | 4172 | 05 13.0 | 17 | SN C 2.3 | | | 78 | 1.2 | EFJ |
| | CULG | 09 0621E | 0625U | 0640 | S08 | E49 | 4172 | 05 12.9 | 190 | SN | | P | 0625 | 90 | 1.3 |
| | LEAR | 09 0623 | 0627 | 0644 | S10 | E51 | 4172 | 05 13.1 | 21 | SN C 2.3 | 3 | C | 80 | | F |
| | PEKG | 09 0626 | 0628 | 0635 | S11 | E49 | 4172 | 05 12.9 | 9 | SF C 2.3 | | C | 63 | 1.0 | E |
| 0159 | | 09 07064 | 07087 | 0743 | S10 | E50 | 4172 | 05 13.0 | 37 | SB | 9.6 | | 96 | 1.5 | DEF |
| | KAND | 09 0706 | 0708 | 0726 | S10 | E52 | 4172 | 05 13.2 | 20 | SB | | C | 42 | .7 | D |
| | CULG | 09 0708E | 0713U | 0724 | S08 | E49 | 4172 | 05 13.0 | 50 | SN | | P | 0713 | 130 | 1.9 |
| | MANI | 09 0710 | 0710 | 0819 | S09 | E47 | 4172 | C5 12.8 | 69 | SB | 1 | V | 95 | 1.4 | |
| | PEKG | 09 0710 | 0714 | 0719 | S11 | E50 | 4172 | 05 13.1 | 9 | SN C 9.6 | P | 0714 | 126 | 2.0 | E |
| | LEAR | 09 0710 | 0715 | 0748 | S11 | E51 | 4172 | C5 13.1 | 38 | SB C 9.6 | 3 | C | 88 | | FE |
| 0160 | LEAR | 09 0807 | 0812 | 0826 | S10 | E71 | | 05 14.7 | 19 | SF | 3 | C | 39 | | F |
| 0161 | RAMY | 09 1200 | 1205 | 1229 | S11 | E46 | 4172 | 05 13.0 | 29 | SB C 3.7 | 3 | C | 57 | | |
| 0162 | RAMY | 09 1303 | 1304 | 1322 | S11 | E48 | 4172 | 05 13.1 | 19 | SN C 1.8 | 3 | C | 23 | | |
| 0163 | | 09 14074 | 1413* | 1515 | S12 | E46 | 4172 | 05 13.0 | 68 | SN M 1.0 | | | 133 | | EFK |
| | HOLL | 09 1407 | 1416 | 1529 | S12 | E46 | 4172 | 05 13.0 | 82 | IN M 1.0 | 3 | C | 203 | | FK |
| | HOLL | 09 1407 | 1454 | 1529 | S12 | E46 | 4172 | 05 13.0 | 82 | SN | 3 | C | 65 | | K |
| | RAMY | 09 1411 | 1413 | 1447 | S11 | E47 | 4172 | 05 13.1 | 36 | SB M 1.0 | 3 | C | 130 | | FE |
| 0164 | HOLL | 09 1511 | 1513 | 1519 | S09 | W63 | 4165 | 05 4.9 | 8 | SF | 3 | C | 51 | | F |
| 0165 | | 09 16203 | 1628* | 1718 | S12 | E44 | 4172 | 05 13.0 | 58 | SN C 2.9 | | | 76 | | FK |
| | HOLL | 09 1620 | 1633 | 1724 | S12 | E44 | 4172 | 05 13.0 | 64 | SN C 2.9 | 3 | C | 75 | | FK |
| | HOLL | 09 1620 | 1646 | 1724 | S12 | E44 | 4172 | 05 13.0 | 64 | SN | 3 | C | 70 | | K |
| | RAMY | 09 1623 | 1628 | 1705 | S11 | E44 | 4172 | 05 13.0 | 42 | SN | 3 | C | 84 | | |
| 0166 | HOLL | 09 1654 | 1656 | 1706 | S28 | E42 | 4171 | 05 13.0 | 12 | SN | 3 | C | 90 | | F |
| 0167 | | 09 17303 | 1733* | 1807 | S29 | E42 | 4171 | 05 13.0 | 37 | SN | | | 49 | | FK |
| | HOLL | 09 1730 | 1733 | 1807 | S29 | E41 | 4171 | 05 12.9 | 37 | SN | 3 | C | 73 | | FK |
| | HOLL | 09 1730 | 1755 | 1807 | S29 | E41 | 4171 | 05 12.9 | 37 | SN | 3 | C | 39 | | K |
| | PALF | 09 1732 | 1733 | 1810 | S29 | E42 | 4171 | 05 13.0 | 38 | SN | 3 | C | 60 | | FK |
| | PALE | 09 1732 | 1757 | 1810 | S29 | E42 | 4171 | 05 13.0 | 38 | SF | 3 | C | 35 | | K |
| | RAMY | 09 1733 | 1733 | 1803 | S30 | E44 | 4171 | 05 13.2 | 30 | SN | 3 | C | 56 | | K |
| | RAMY | 09 1733 | 1757 | 1803 | S30 | E44 | 4171 | 05 13.2 | 30 | SF | 3 | C | 30 | | K |
| 0168 | | 09 18112 | 18142 | 1833 | S10 | E43 | 4172 | 05 13.0 | 22 | SF C 1.8 | | | 35 | | F |
| | HOLL | 09 1811 | 1815 | 1828 | S10 | E44 | 4172 | 05 13.1 | 17 | SF C 1.8 | 3 | C | 56 | | F |
| | PALE | 09 1813 | 1814 | 1831 | S10 | E43 | 4172 | 05 13.0 | 18 | SF | 3 | C | 22 | | F |
| | RAMY | 09 1816E | 1816 | 1840 | S10 | E42 | 4172 | 05 12.9 | 240 | SF | 3 | C | 27 | | |

MAY 1983

| Grp # | Start Sta | Mex Day | End Day | NOAA/USAF | | | | Dur (Min) | Imp Opt | Xray | Obs See | Type | Add Measurement | | | |
|-------|-----------|---------|---------|-----------|-------|--------|--------|-----------|---------|------|---------|------|-----------------|-----------------------|---------------|---------|
| | | | | Lat | CMD | Region | Mo Day | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks |
| 0169 | HOLL | 09 | 2021 | 2022 | 2026D | S12 | E41 | 4172 | 05 12.9 | 50 | SB | C | 1.2 | 3 | C | 72 |
| 0170 | HOLL | 09 | 2107 | 2112 | 2141D | S31 | E39 | 4171 | 05 12.9 | 34D | SF | C | 1.1 | 3 | C | 71 |
| 0171 | HOLL | 09 | 2109 | 2112* | 2140D | S10 | E43 | 4172 | 05 13.1 | 31D | SN | | | | | 36 |
| | | 09 | 2109 | 2112 | 2140D | S10 | E43 | 4172 | 05 13.1 | 31D | SF | | | 3 | C | 29 |
| | | 09 | 2109 | 2132 | 2140D | S10 | E43 | 4172 | 05 13.1 | 31D | SN | | | 3 | C | 43 |
| 0172 | HOLL | 09 | 2200* | 2217* | 2248 | S11 | E41 | 4172 | 05 13.0 | 48 | SF | | | | | 52 |
| | | 09 | 2200 | 2217 | 2253 | S11 | E41 | 4172 | 05 13.0 | 53 | SF | | | 3 | C | 42 |
| | | 09 | 2214 | 2238 | 2242 | S11 | E41 | 4172 | 05 13.0 | 28 | SF | | | 3 | C | 63 |
| 0173 | MANI | 09 | 23022 | 23056 | 2354 | S29 | E41 | 4171 | 05 13.2 | 52 | 2B | X | 2.4 | | | 535 |
| | | 09 | 2302 | 2305 | 2350 | S29 | E39 | 4171 | 05 13.0 | 48 | 2B | | | 1 | V | 520 |
| | | 09 | 2302 | 2307U | 2329D | S29 | E39 | 4171 | 05 13.0 | 27D | 2B | X | 2.4 | 3 | C | 550 |
| | | 09 | 2302 | 2307 | 2352 | S29 | E42 | 4171 | 05 13.2 | 50 | 2B | | | | | 680 |
| | | 09 | 2303 | 2307 | 2351 | S28 | E42 | 4171 | 05 13.2 | 48 | 2B | | | | | 640 |
| | | 09 | 2304 | 2311 | 2352 | S30 | E41 | 4171 | 05 13.2 | 48 | 2C | X | 2.4 | 3 | C | 655 |
| 0174 | LEAR | 09 | 2331E | 2331U | 2407 | S29 | E42 | 4171 | 05 13.3 | 36D | 1N | | | 2 | C | 165 |
| | | 09 | 2304 | 2313 | 2315 | S09 | E61 | | 05 14.5 | 11 | SF | | | | | 70 |
| 0175 | HOLL | 10 | 0012 | 0012 | 0025 | S09 | W70 | 4165 | 05 4.7 | 13 | SF | | | 3 | C | 13 |
| 0176 | LEAR | 10 | 00155 | 00231 | 0036 | S12 | E40 | 4172 | 05 13.0 | 21 | SN | | | | | 34 |
| | | 10 | 0015 | 0024 | 0038 | S12 | E40 | 4172 | 05 13.0 | 23 | SN | | | 3 | C | 45 |
| | | 10 | 0020 | 0025 | 0033 | S11 | E39 | 4172 | 05 12.9 | 13 | SN | | | 3 | C | 22 |
| 0177 | LEAR | 10 | 0027 | 0028 | 0035 | S11 | W12 | 4173 | 05 9.1 | 8 | SF | | | 3 | C | 24 |
| 0178 | CULG | 10 | 0106 | 0111 | 0144 | S14 | #46 | 4168 | 05 6.6 | 38 | SF | | | | | 120 |
| 0179 | PALE | 10 | 0255E | 0258U | 03500 | S10 | E38 | 4172 | 05 13.0 | 55D | SN | C | 3.3 | 3 | C | 63 |
| 0180 | PALE | 10 | 0301 | 0308 | 0313 | S12 | W08 | 4173 | 05 9.5 | 12 | SF | | | 3 | C | 88 |
| 0181 | PALE | 10 | 0308 | 0312 | 0317 | S27 | E37 | 4171 | 05 13.0 | 9 | SF | | | 3 | C | 23 |
| 0182 | PALE | 10 | 0323 | 0326 | 0339 | S27 | E38 | 4171 | 05 13.1 | 16 | SF | | | 3 | C | 25 |
| 0183 | MANI | 10 | 0330 | 03385 | 0529 | S08 | E38 | 4172 | 05 13.0 | 119 | SN | | | | | 98 |
| | | 10 | 0328E | 0338 | 0525 | S08 | E38 | 4172 | 05 13.0 | 117D | SN | | | 1 | V | 85 |
| | | 10 | 0330 | 0343 | 0533 | S08 | E39 | 4172 | 05 13.1 | 123 | SN | | | 3 | C | 110 |
| 0184 | PALE | 10 | 0329 | 0336 | 0342 | S12 | W09 | 4173 | 05 9.5 | 13 | SF | | | 3 | C | 46 |
| 0185 | LEAR | 10 | 0420E | 0423 | 0500 | N12 | W90 | 4167 | 05 3.4 | 40D | SN | | | 3 | C | |
| 0186 | LEAR | 10 | 0503 | 0504 | 0509 | N13 | W74 | 4167 | 05 4.6 | 6 | SF | | | 3 | C | 14 |
| 0187 | LEAR | 10 | 0521 | 0522 | 0530 | N13 | W76 | 4167 | 05 4.5 | 9 | SF | | | 3 | C | |
| 0188 | LEAR | 10 | 0527 | 0530 | 0534 | S32 | E34 | 4171 | 05 12.9 | 7 | SF | | | 3 | C | 19 |
| 0189 | LEAR | 10 | 0536 | 0537 | 0547 | S09 | E38 | 4172 | 05 13.1 | 11 | SF | | | 3 | C | 33 |
| 0190 | YUNN | 10 | 0651* | 0654* | 0732 | S11 | W15 | 4173 | 05 9.1 | 41 | SN | | | | | 201 |
| | | 10 | 0651 | 0654 | 0704 | S11 | W15 | 4173 | 05 9.1 | 13 | SN | | | | C | 157 |
| | | 10 | 0711E | 0711U | 0739 | S11 | W15 | 4173 | 05 9.2 | 28D | 1N | | | | P | 314 |
| | | 10 | 0735E | 0743 | 0802D | S11 | W16 | 4173 | 05 9.1 | 27D | SN | | | | P | 131 |
| | | 10 | 0739 | 0748 | 0753 | S12 | W14 | 4173 | 05 9.3 | 14 | SF | | | 1 | | 1.4 |
| 0191 | KANZ | 10 | 07399 | 07417 | 0759 | S11 | E36 | 4172 | 05 13.0 | 20 | SN | | | | | 80 |
| | | 10 | 0739 | 0741 | 0752U | S10 | E35 | 4172 | 05 12.9 | 13U | SF | | | | C | 29 |
| | | 10 | 0739 | 0748 | 0803 | S11 | E36 | 4172 | 05 13.0 | 24 | SF | | | 1 | | 4 |
| | | 10 | 0740 | 0742 | 0801 | S12 | E36 | 4172 | 05 13.0 | 21 | SN | | | | C | 0742 |
| 0192 | ISTA | 10 | 0748 | 0752 | 0755 | S12 | E39 | 4172 | 05 13.3 | 4 | SN | | | | | 131 |
| | | 10 | 0748 | 0752 | 0755 | S12 | E39 | 4172 | 05 13.3 | 1 | | | | | | 1.6 |

66
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | |
|----------|------|-----|---------------|-------------|-------------|-----------------|---------------|--------|----|--------------|------|-----|--------------|-------------------------|----------------------|-----------------|-----|
| | | | | | | | CMD | Region | Mo | Day | | | | (10 ⁻⁶ Disk) | Apparent (Sq Deg) | Corr Remarks | |
| 0192 | LEAR | 10 | 08111 | 08111 | 0816 | S30 | E36 | 4171 | 05 | 13.2 | 5 | SF | | | 31 | | |
| | KANZ | 10 | 0811 | 0811 | 0816 | S30 | E36 | 4171 | 05 | 13.2 | 5 | SF | 3 | C | 31 | | |
| | KANZ | 10 | 0812 | 0812 | 0817 | S30 | E36 | 4171 | 05 | 13.2 | 5 | SF | 2 | | | | |
| 0193 | KANZ | 10 | 0850 | 0855 | 0900 | S10 | W72 | 4170 | 05 | 4.9 | 10 | SF | | 2 | | | |
| 0194 | YUNN | 10 | 0929 | 0929 | 0939 | S12 | W14 | 4173 | 05 | 9.3 | 10 | IN | | | 314 | 3.4 | |
| | YUNN | 10 | 0924E | 0924U | 09290 | S11 | W15 | 4173 | 05 | 9.3 | 50 | IN | | | 314 | 3.4 | |
| | KANZ | 10 | 0929 | 0929 | 0939 | S12 | W12 | 4173 | 05 | 9.5 | 10 | SF | 1 | | | | |
| 0195 | KANZ | 10 | 1006 | 1011 | 1025 | S15 | W53 | 4168 | 05 | 6.4 | 19 | SF | | 1 | | | |
| 0196 | KHAR | 10 | 1011 | 10125 | 1029 | S12 | E36 | 4172 | 05 | 13.1 | 18 | SN | | | 65 | .6 | |
| | HOLL | 10 | 1010E | 1012 | 1034D | S12 | E37 | 4172 | 05 | 13.2 | 240 | SF | | | 60 | .6 | |
| | KANZ | 10 | 1011 | 1017 | 1030 | S11 | E36 | 4172 | 05 | 13.1 | 19 | SN | 2 | | | | |
| | MONT | 10 | 1015E | 1016 | 1028 | S12 | E36 | 4172 | 05 | 13.1 | 130 | SN | | | 70 | | |
| 0197 | KANZ | 10 | 1021 | 1025 | 1036 | S12 | W14 | 4173 | 05 | 9.4 | 15 | SN | | 2 | | | |
| | | 10 | 1056 | | 1058 | No Flare Patrol | | | | | | | | | | | |
| 0198 | RAMY | 10 | 1106 | 1211* | 1319 | S13 | W15 | 4173 | 05 | 9.3 | 133 | 18 | M 3.1 | | 283 | 2.4 | |
| | RAMY | 10 | 1106 | 1211 | 1340 | S13 | W16 | 4173 | 05 | 9.2 | 154 | 18 | M 3.1 | 3 | 316 | K | |
| | RAMY | 10 | 1106 | 1302 | 1340 | S13 | W16 | 4173 | 05 | 9.2 | 154 | IN | 3 | C | 310 | | |
| | ATHN | 10 | 1208E | 1214 | 1236 | S14 | W14 | 4173 | 05 | 9.4 | 280 | 18 | 1 | V | 1214 | 2.4 | |
| 0199 | RAMY | 10 | 1301 | 1308 | 1318 | S12 | E32 | 4172 | 05 | 12.9 | 17 | SN | 3 | C | 39 | | |
| 0200 | HOLL | 10 | 1350E | 1352* | 15450 | S11 | W18 | 4173 | 05 | 9.2 | 1150 | SN | C 1.8 | | 124 | FK | |
| | HOLL | 10 | 1350E | 1352 | 15450 | S11 | W18 | 4173 | 05 | 9.2 | 1150 | SF | 3 | C | 154 | K | |
| | HOLL | 10 | 1350E | 1425 | 15450 | S11 | W18 | 4173 | 05 | 9.2 | 1150 | SN | C 1.8 | 3 | C | 95 | FK |
| 0201 | RAMY | 10 | 14585 | 15079 | 1522 | S16 | W22 | 4173 | 05 | 8.9 | 24 | SN | | | 51 | FK | |
| | RAMY | 10 | 1458 | 1511 | 1523 | S15 | W21 | 4173 | 05 | 9.0 | 25 | SN | 3 | C | 48 | K | |
| | RAMY | 10 | 1458 | 1516 | 1523 | S15 | W21 | 4173 | 05 | 9.0 | 25 | SN | 3 | C | 49 | | |
| | HOLL | 10 | 1503 | 1507 | 1521 | S18 | W25 | 4173 | 05 | 8.7 | 18 | SN | 3 | C | 57 | F | |
| 0202 | RAMY | 10 | 1619 | 1622 | 1636 | S14 | W55 | 4168 | 05 | 6.5 | 17 | SF | 3 | C | 18 | | |
| 0203 | KANZ | 10 | 1627 | 16292 | 1706 | S12 | W19 | 4173 | 05 | 9.2 | 39 | SN | C 3.9 | | 65 | | |
| | KANZ | 10 | 1624E | 1629 | 16540 | S12 | W19 | 4173 | 05 | 9.2 | 300 | SN | 2 | | | | |
| | RAMY | 10 | 1627 | 1631 | 1657 | S12 | W19 | 4173 | 05 | 9.2 | 30 | SN | C 3.9 | 3 | C | 50 | |
| | PALE | 10 | 1644E | 1650U | 1715 | S13 | W20 | 4173 | 05 | 9.2 | 310 | SN | C 3.9 | 3 | C | 80 | |
| 0204 | RAMY | 10 | 1646 | 1647 | 1659 | S28 | E28 | 4171 | 05 | 12.9 | 13 | SF | 3 | C | 33 | | |
| 0205 | PALE | 10 | 1722 | 1739 | 1747 | S15 | W20 | 4173 | 05 | 9.2 | 25 | SF | 3 | C | 94 | | |
| 0206 | PALE | 10 | 1800 | 1808* | 2013 | S13 | W21 | 4173 | 05 | 9.2 | 133 | SN | C 5.7 | | 113 | EFK | |
| | PALE | 10 | 1800 | 1808 | 1952 | S13 | W21 | 4173 | 05 | 9.2 | 112 | SN | 3 | C | 60 | K | |
| | PALE | 10 | 1800 | 1844U | 1952 | S13 | W21 | 4173 | 05 | 9.2 | 112 | SN | C 5.7 | 3 | C | 114 | FK |
| | HOLL | 10 | 1827E | 1842 | 2056 | S12 | W22 | 4173 | 05 | 9.1 | 1490 | SB | C 5.7 | 3 | C | 165 | FE |
| 0207 | HOLL | 10 | 1921 | 1922 | 1928 | S29 | E28 | 4171 | 05 | 13.0 | 7 | SN | 3 | C | 24 | | |
| 0208 | HOLL | 10 | 2007 | 2012 | 2026 | S12 | E27 | 4172 | 05 | 12.9 | 19 | SF | 3 | C | 67 | F | |
| 0209 | CULG | 10 | 23 | 23388 | 2348 | S11 | W26 | 4173 | 05 | 9.0 | 17 | SN | C 1.8 | | 55 | .5 | |
| | CULG | 10 | 2331 | 2338 | 2340 | S11 | W28 | 4173 | 05 | 8.9 | 9 | SN | | | 50 | | |
| | HOLL | 10 | 2344 | 2346 | 2356 | S11 | W24 | 4173 | 05 | 9.2 | 12 | SN | C 1.8 | 3 | C | 60 | |
| 0210 | YUNN | 11 | 0043 | 0044 | 0045 | S29 | E27 | 4171 | 05 | 13.1 | 2 | SN | | C | 31 | .4 | |
| 0211 | YUNN | 11 | 0246E | 0246U | 0310 | S12 | W27 | 4173 | 05 | 9.1 | 240 | SN | | P | 0246 | 1.8 | |
| 0212 | CULG | 11 | 0318 | 0321 | 0325 | S10 | E23 | 4172 | 05 | 12.9 | 7 | SF | | C | 0321 | 50 | |
| 0213 | CULG | 11 | 0350A | 03599 | 0434 | S11 | W25 | 4173 | 05 | 9.3 | 44 | SN | M 3.1 | | 130 | 1.6 | |
| | LEAR | 11 | 0350 | 0359 | 0428 | S12 | W26 | 4173 | 05 | 9.2 | 38 | IN | | | 200 | 2.2 | |
| | LEAR | 11 | 0354 | 0408 | 0445 | S11 | W24 | 4173 | 05 | 9.3 | 51 | SB | M 3.1 | 3 | C | 99 | JF1 |
| | MANI | 11 | 0411E | 0411U | 0428 | S10 | W25 | 4173 | 05 | 9.3 | 170 | SN | 1 | V | 90 | F | |

H - ALPHA SOLAR FLARES

57
May 83

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF Region | OMP | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | | | | | |
|-------|------|-----|------------|----------|----------|-----------------|-----|------------------|-----|-----------|-----|-----|-----------|------------------|-----|-----|------|-----|------|-----------------------|---------------|---------|-------|
| | | | | | | | | | | | | | | Mo | Day | Opt | Xray | See | Type | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks | |
| 0214 | LEAR | 11 | 0450 | 0451 | 0459 | S12 | W27 | 4173 | 05 | 9.2 | 9 | SF | C | 4.4 | 3 | C | | | | | 24 | | |
| 0215 | | 11 | 0759 | 0800 | 0824 | S11 | E27 | 4172 | 05 | 13.4 | 25 | SF | C | 5.4 | | | | | | | 46 | F | |
| | LEAR | 11 | 0759 | 0800 | 0824 | S10 | E24 | 4172 | 05 | 13.1 | 25 | SF | C | 5.4 | 3 | C | | | | | 46 | F | |
| | KHAR | 11 | 0829E | | 0830 | S12 | E30 | 4172 | 05 | 13.6 | 60 | SF | | | | P | | | | | | | |
| 0215 | LEAR | 11 | 0825 | 0826 | 0854 | S11 | W26 | 4173 | 05 | 9.4 | 29 | SN | | | 3 | C | | | | | 26 | | |
| | | 11 | 1019 | | 1032 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0217 | KHAR | 11 | 1033E | | 10490 | S16 | E27 | 4172 | 05 | 13.5 | 160 | SF | | | | P | | | | | | D | |
| | | 11 | 1050 | | 1100 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| | | 11 | 1138 | | 1141 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| | | 11 | 1217 | | 1220 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0218 | HOLL | 11 | 1322 | 1329 | 13320 | S12 | W30 | 4173 | 05 | 9.3 | 100 | SB | M | 1.3 | 3 | C | | | | | 75 | | |
| 0219 | HTPR | 11 | 1417E | | 14340 | S10 | W27 | 4175 | 05 | 9.6 | 170 | SF | | | | C | 1419 | | | | 30 | .3 | E |
| 0220 | HTPR | 11 | 1417E | | 14340 | S12 | W34 | 4173 | 05 | 9.0 | 170 | SF | | | | C | 1419 | | | | 20 | .2 | E |
| 0221 | | 11 | 14191 | 1423 | 14510 | S30 | E24 | 4171 | 05 | 13.5 | 320 | 18 | M | 1.9 | | | | | | | 207 | .8 | BEFU |
| | HTPR | 11 | 1419 | | 14340 | S30 | E27 | 4171 | 05 | 13.7 | 150 | SF | | | | C | 1426 | | | | 70 | .8 | E |
| | RAMY | 11 | 1419 | 1423 | 14230 | S31 | E22 | 4171 | 05 | 13.3 | 40 | 18 | M | 1.9 | 3 | C | | | | | 263 | | UF |
| | HOLL | 11 | 1420 | 1423 | 14260 | S31 | E22 | 4171 | 05 | 13.3 | 60 | 18 | M | 1.9 | 3 | C | | | | | 414 | | FE |
| | HTPR | 11 | 1450E | | 14510 | S30 | E27 | 4171 | 05 | 13.7 | 10 | SB | | | | C | 1450 | | | | 80 | .9 | BE |
| | | 11 | 1530 | | 1533 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0222 | HTPR | 11 | 1534E | | 15350 | S13 | W30 | 4173 | 05 | 9.4 | 10 | SF | | | | C | 1534 | | | | 20 | .2 | E |
| | | 11 | 1536 | | 1546 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| | | 11 | 1556 | | 1610 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0223 | HTPR | 11 | 1611E | | 1627 | S12 | W33 | 4173 | 05 | 9.2 | 160 | SN | | | | C | 1614 | | | | 80 | 1.0 | E |
| 0224 | HTPR | 11 | 1621 | 1623 | 1626 | S10 | W20 | 4175 | 05 | 10.2 | 5 | SF | | | | C | 1623 | | | | 20 | .2 | |
| 0225 | HTPR | 11 | 1624 | | 16440 | N08 | E85 | 4174 | 05 | 18.0 | 200 | SF | | | | C | 1632 | | | | 20 | | |
| | | 11 | 1645 | | 1906 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0226 | RAMY | 11 | 1737 | 1745 | 1802 | S10 | E17 | 4172 | 05 | 13.0 | 25 | SF | | | 3 | C | | | | | 27 | | |
| 0227 | PALE | 11 | 1907E | 1919U | 1928 | S11 | W36 | 4173 | 05 | 9.1 | 210 | SF | | | 3 | C | | | | | 61 | | F |
| 0228 | PALE | 11 | 1935 | 1942 | 2031 | S11 | E16 | 4172 | 05 | 13.0 | 56 | SN | C | 6.3 | 3 | C | | | | | 190 | | F |
| 0229 | PALE | 11 | 2032 | 2032 | 2041 | S12 | W38 | 4173 | 05 | 9.0 | 9 | SF | | | 3 | C | | | | | 26 | | F |
| | | 11 | 2055 | | 2104 | No Flare Patrol | | | | | | | | | | | | | | | | | |
| 0230 | CULG | 11 | 2157 | 2159 | 2210 | S12 | W36 | 4173 | 05 | 9.2 | 13 | SF | | | | C | 2159 | | | | 20 | .2 | |
| 0231 | CULG | 11 | 2206 | 2207 | 2212 | S27 | E17 | 4171 | 05 | 13.2 | 6 | SF | | | | C | 2207 | | | | 60 | .7 | |
| 0232 | | 11 | 2210 | 2214 | 2229 | N08 | E75 | 4174 | 05 | 17.5 | 19 | IN | | | | | | | | | 120 | | EJ |
| | CULG | 11 | 2210 | 2212U | 2223D | N09 | E77 | 4174 | 05 | 17.7 | 130 | IN | | | | P | 2212 | | | | 70 | | J |
| | VORO | 11 | 2210 | 2214 | 2229 | N08 | E73 | 4174 | 05 | 17.4 | 19 | IF | | | | C | 2214 | | | | 170 | | EJ |
| 0233 | HOLL | 11 | 2257E | 2312 | 2336 | S10 | W40 | 4173 | 05 | 8.9 | 390 | SN | | | 3 | C | | | | | 79 | | |
| C234 | | 11 | 2320* | 2337* | 2414 | S28 | E14 | 4171 | 05 | 13.1 | 54 | SN | C | 5.9 | | | | | | | 162 | 1.8 | GEFJK |
| | HOLL | 11 | 2320 | 2338 | 2448 | S28 | E13 | 4171 | 05 | 13.0 | 88 | 18 | C | 5.9 | 3 | C | | | | | 345 | | FEK |
| | HOLL | 11 | 2320 | 2412 | 2448 | S28 | E13 | 4171 | 05 | 13.0 | 88 | SF | | | 3 | C | | | | | 136 | | K |
| | MANI | 11 | 2327 | 2337 | 2348 | S28 | E13 | 4171 | 05 | 13.0 | 21 | 18 | | | 1 | V | | | | | 195 | 2.1 | F |
| | VORO | 11 | 2337 | 2338 | 2343 | S28 | E14 | 4171 | 05 | 13.1 | 6 | IF | | | | C | 2338 | | | | 242 | 2.8 | EJ |
| | LEAR | 11 | 2337E | 2339U | 2350 | S28 | E14 | 4171 | 05 | 13.1 | 130 | SB | C | 5.9 | 3 | C | | | | | 158 | | F |
| | PEKG | 12 | 0010 | 0014 | 0020 | S27 | E17 | 4171 | 05 | 13.3 | 10 | SF | | | | C | 0014 | | | | 29 | .4 | D |
| | LEAR | 12 | 0011 | 0011 | 0025 | S27 | E17 | 4171 | 05 | 13.3 | 14 | SF | | | 3 | C | | | | | 27 | | |

68
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF OMP | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | |
|----------|------|-----|---------------|-------------|-------------|---------|----------------------|--------|------|--------------|----------|-----|--------------|-------------------------------------|------------------|---------|------|
| | | | | | | | CMO | Region | No | Day | | | | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | |
| 0235 | | 11 | 2337# | 2342# | 2452 | S10 W39 | 4173 | 05 | 9.0 | 75 | IN M 1.0 | | | 188 | 2.4 | EFJKU | |
| | HOLL | 11 | 2337 | 2342 | 2506 | S09 W39 | 4173 | 05 | 9.0 | 89 | SF | 3 | C | 37 | | K | |
| | HOLL | 11 | 2337 | 2438 | 2506 | S09 W39 | 4173 | 05 | 9.0 | 89 | 1B | 3 | C | 380 | | FEK | |
| | LEAR | 11 | 2353 | 2425 | 2457 | S10 W38 | 4173 | 05 | 9.1 | 64 | SB | 3 | C | 98 | | FK | |
| | LEAR | 11 | 2353 | 2438 | 2457 | S10 W38 | 4173 | 05 | 9.1 | 64 | 1B | 3 | C | 254 | | K | |
| | PEKG | 12 | 0000 | 0014 | 0021 | S09 W39 | 4173 | 05 | 9.1 | 14 | SN | | C | 0014 | 97 | E | |
| | PEKG | 12 | 0020 | 0030 | 0045 | S09 W39 | 4173 | 05 | 9.1 | 250 | IN | | C | 0030 | 202 | 2.7 | |
| | PEKG | 12 | 0020 | 0038 | 0045D | S10 W38 | 4173 | 05 | 9.1 | 250 | IN M 1.0 | | C | 0038 | 176 | 2.4 | |
| | CULG | 12 | 0036 | 0040 | 0048 | S12 W38 | 4173 | 05 | 9.2 | 12 | 1B | | C | 0040 | 260 | 3.2 | |
| 0236 | PEKG | 12 | 0010 | 0014 | 0022 | N06 E80 | 4174 | 05 | 18.0 | 12 | SF | | C | 0014 | 17 | E | |
| 0237 | | 12 | 00201 | 00225 | 0039 | S09 W27 | 4175 | 05 | 10.0 | 19 | SH C 5.5 | | | 68 | .6 | DEFJ | |
| | PEKG | 12 | 0020 | 0022 | 0035 | S08 W28 | 4175 | 05 | 9.9 | 15 | SF C 5.5 | | C | 0022 | 46 | .5 | |
| | HOLL | 12 | 0020 | 0026 | 0045 | S08 W28 | 4175 | 05 | 9.9 | 25 | SN C 5.5 | 3 | C | 76 | | F | |
| | LEAR | 12 | 0021 | 0023 | 0045 | S09 W27 | 4175 | 05 | 10.0 | 24 | SB C 5.5 | 3 | C | 89 | | F | |
| | VORO | 12 | 0021 | 0024 | 0034 | S09 W28 | 4175 | 05 | 9.9 | 13 | SN | | C | 0024 | 99 | DJ | |
| | CULG | 12 | 0021 | 0027 | 0035 | S10 W27 | 4175 | 05 | 10.0 | 14 | SN | | C | 0027 | 30 | .5 | |
| 0238 | LEAR | 12 | 0028 | 0030 | 0036 | S29 E10 | 4171 | 05 | 12.8 | 8 | SF | | 3 | C | 27 | | |
| ~239 | | 12 | 00366 | 00402 | 0050 | N08 E83 | 4174 | 05 | 18.2 | 14 | SN | | | 54 | | A | |
| | PEKG | 12 | 0036 | 0040 | 0050 | N08 E88 | 4174 | 05 | 18.6 | 14 | SB | | C | 0040 | 84 | A | |
| | HOLL | 12 | 0042 | 0042 | 0049 | N07 E78 | 4174 | 05 | 17.9 | 7 | SF | | 3 | C | 25 | | |
| 0240 | | 12 | 01464 | 01507 | 0207 | S13 W37 | 4173 | 05 | 9.3 | 21 | SH C 8.2 | | | 104 | 1.5 | EJ | |
| | VORO | 12 | 0146 | 0155 | 0205 | S13 W38 | 4173 | 05 | 9.2 | 19 | 1F | | C | 0155 | 215 | 2.8 | |
| | CULG | 12 | 0147 | 0155 | 0159D | S15 W36 | 4173 | 05 | 9.3 | 120 | SN | | P | 0155 | 80 | EJ | |
| | PEKG | 12 | 0148 | 0150 | 0210 | S11 W38 | 4173 | 05 | 9.2 | 22 | SF C 8.2 | | C | 0150 | 59 | .8 | |
| | LEAR | 12 | 0150 | 0157 | 0205 | S12 W36 | 4173 | 05 | 9.4 | 15 | SN C 8.2 | 3 | C | 64 | | | |
| 0241 | LEAR | 12 | 0151 | 0154 | 0156 | N08 E70 | 4174 | 05 | 17.3 | 5 | SF | | 3 | C | 11 | | |
| 0242 | | 12 | 0219# | 0225# | 0316 | S30 E15 | 4171 | 05 | 13.3 | 57 | 2B M 5.6 | | | 668 | 8.1 | EFHJ | |
| | LEAR | 12 | 0219 | 0225 | 0236 | S30 E14 | 4171 | 05 | 13.2 | 17 | SF | | 3 | C | 118 | | |
| | LEAR | 12 | 0237 | 0256 | 0346 | S30 E15 | 4171 | 05 | 13.3 | 69 | 3B M 5.6 | 3 | C | 1174 | | EH | |
| | MANI | 12 | 0238 | 0251 | 0324 | S30 E15 | 4171 | 05 | 13.3 | 46 | 2B | | 1 | V | 810 | 9.8 | |
| | VORO | 12 | 0253 | 0256 | 0314D | S30 E17 | 4171 | 05 | 13.4 | 210 | 2B | | C | 0256 | 735 | 8.6 | |
| | PEKG | 12 | 0254E | 0256 | 0319 | S31 E15 | 4171 | 05 | 13.3 | 250 | 2B M 5.6 | | C | 0256 | 505 | 6.0 | |
| 0243 | LEAR | 12 | 0223 | 0246 | 0311 | S11 E12 | 4172 | 05 | 13.0 | 48 | SF | | 3 | Q | 60 | | |
| 0244 | | 12 | 02232 | 02234 | 0227 | S10 W40 | 4173 | 05 | 9.1 | 4 | SF | | | 48 | .8 | DJ | |
| | LEAR | 12 | 0223 | 0223 | 0229 | S10 W41 | 4173 | 05 | 9.0 | 6 | SF | | 3 | C | 25 | | |
| | VORO | 12 | 0223 | 0224 | 0225 | S11 W40 | 4173 | 05 | 9.1 | 2 | SN | | C | 0224 | 90 | 1.2 | |
| | MANI | 12 | 0225 | 0227 | 0234D | S10 W40 | 4173 | 05 | 9.1 | 90 | SF | | 1 | V | 30 | .4 | |
| 0245 | | 12 | 0240# | 02542 | 0320 | S10 W40 | 4173 | 05 | 9.1 | 40 | 1B | | | | 160 | 2.2 | DEFJ |
| | MANI | 12 | 0240 | 0255 | 0327 | S10 W39 | 4173 | 05 | 9.2 | 47 | 1B | | 1 | V | 170 | 2.3 | |
| | LEAR | 12 | 0241 | 0256 | 0328 | S10 W39 | 4173 | 05 | 9.2 | 47 | SB | | 3 | C | 154 | | F |
| | PEKG | 12 | 0250 | 0254 | 0322 | S10 W40 | 4173 | 05 | 9.1 | 32 | SN | | C | 0254 | 126 | 1.7 | |
| | VORO | 12 | 0252 | 0254 | 0304 | S12 W41 | 4173 | 05 | 9.0 | 12 | 1N | | C | 0254 | 188 | 2.5 | |
| 0246 | LEAR | 12 | 0346 | 0402 | 0415 | N08 E75 | 4174 | 05 | 17.8 | 29 | SF | | 3 | C | 23 | | |
| 0247 | | 12 | 0422# | C*331 | 0440 | S10 W42 | 4173 | 05 | 9.0 | 18 | SN C 2.7 | | | 66 | .9 | E | |
| | LEAR | 12 | 0422 | 0433 | 0442 | S11 W42 | 4173 | 05 | 9.0 | 20 | SN C 2.7 | 3 | C | 65 | | | |
| | PEKG | 12 | 0432 | 0434 | 0457 | S09 W42 | 4173 | 05 | 9.0 | 5 | SN | | C | 0434 | 67 | .9 | |
| 0248 | CULG | 12 | 0453 | 0456 | 0503 | S09 E03 | 4172 | 05 | 12.4 | 10 | SB | | C | 0456 | 100 | 1.0 | |
| 0249 | PEKG | 12 | 0454 | 0456 | 0500 | N07 E77 | 4174 | 05 | 18.0 | 6 | SF | | C | 0456 | 17 | D | |
| 0250 | PEKG | 12 | 0456E | 0457 | 0504 | S29 E10 | 4171 | 05 | 13.0 | 80 | SN C 6.4 | | C | 0457 | 160 | 1.8 | |
| 0251 | | 12 | 05492 | 05543 | 0609 | S09 W30 | 4175 | 05 | 10.0 | 20 | SN C 3.5 | | | 76 | .9 | E | |
| | CULG | 12 | 0549 | 0554 | 0603 | S10 W31 | 4175 | 05 | 9.9 | 14 | SN | | C | 0554 | 70 | .8 | |
| | PEKG | 12 | 0551 | 0554 | 0603 | S09 W32 | 4175 | 05 | 9.8 | 12 | SF C 3.5 | | C | 0554 | 84 | 1.0 | |
| | LEAR | 12 | 0552E | 0557 | 0558D | S09 W30 | 4175 | 05 | 10.0 | 60 | SB C 3.5 | 3 | C | 84 | | E | |
| | MANI | 12 | 0559E | 0559U | 0621 | S09 W29 | 4175 | 05 | 10.1 | 220 | SN | 1 | V | 65 | .8 | | |

H - ALPHA SOLAR FLARES

69
May 83

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF Region | OMP Mo Day | Dur (Min) | Imp | Opt Xray | See | Obs Type | Area Measurement | | | Remarks | |
|-------|------|-----|------------|----------|----------|-----|-----|------------------|------------|-----------|------|----------|-----|----------|------------------|-----------------------|---------------|---------|--|
| | | | | | | | | | | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | | |
| 0252 | TACH | 12 | 0602 | 0602 | 0615 | S32 | E15 | 4171 | 05 13.4 | 13 | IB | | | C | 0602 | 177 | 2.1 | BD | |
| 0253 | BUCA | 12 | 0630 | 0636 | 0655 | S11 | W42 | 4173 | 05 9.1 | 25 | SF | | | C | 0636 | 107 | 1.5 | E | |
| 0254 | LEAR | 12 | 0712 | 0713 | 0725 | S09 | W31 | 4175 | 05 10.0 | 13 | SN C | 2.6 | 3 | C | | 47 | | | |
| 0255 | | 12 | 07221 | 0724 | 0727 | S10 | W42 | 4173 | 05 9.1 | 5 | SF | | | | | 50 | .7 | E | |
| | ISTA | 12 | 0722 | | 0725 | S11 | W41 | 4173 | 05 9.2 | 3 | SF | | | | | | | | |
| | PEKG | 12 | 0723 | 0724 | 0729 | S10 | W44 | 4173 | 05 9.0 | 6 | SF | | | C | 0724 | 50 | .7 | E | |
| 0256 | | 12 | 08333 | 08362 | 0850 | S10 | W42 | 4173 | 05 9.2 | 17 | SF C | 2.9 | | | | 139 | 1.4 | D | |
| | ISTA | 12 | 0833 | | 0839 | S11 | W40 | 4173 | 05 9.3 | 6 | SF | | | | | | | | |
| | PEKG | 12 | 0833 | 0836 | 0846 | S09 | W43 | 4173 | 05 9.1 | 13 | SF C | 2.9 | | P | 0836 | 42 | .6 | D | |
| | WEND | 12 | 0834 | 0838 | 0842 | S10 | W44 | 4173 | 05 9.0 | 8 | SF | | | C | 0838 | 38 | .5 | | |
| | LEAR | 12 | 0834E | 0838 | 0902D | S10 | W42 | 4173 | 05 9.2 | 280 | IN C | 2.9 | 3 | C | | 245 | | | |
| | MANI | 12 | 0836 | 0838 | 0915 | S10 | W43 | 4173 | 05 9.1 | 39 | IN | | 1 | V | | 230 | 3.2 | | |
| 0257 | | 12 | 08561 | 08581 | 0904 | S09 | W33 | 4175 | 05 9.9 | 8 | SF C | 2.6 | | | | 46 | .4 | | |
| | WEND | 12 | 0856 | 0858 | 0904 | S10 | W34 | 4175 | 05 9.8 | 8 | SF | | | C | 0858 | 25 | .3 | | |
| | YUNN | 12 | 0856 | 0859 | 0905 | S08 | W33 | 4175 | 05 9.9 | 9 | SF | | | P | | 31 | .4 | | |
| | LEAR | 12 | 0857 | 0859 | 0902D | S08 | W32 | 4175 | 05 10.0 | 50 | SN C | 2.6 | 3 | C | | 83 | | | |
| 0258 | WEND | 12 | 1049 | 1114 | 1143 | S11 | E09 | 4172 | 05 13.1 | 54 | SF | | | C | 1114 | 81 | .9 | | |
| 0259 | WEND | 12 | 1156 | 1203 | 1212D | S11 | E09 | 4172 | 05 13.2 | 160 | SF | | | C | 1203 | 63 | .7 | | |
| 0260 | RAMY | 12 | 1234 | 1238 | 1249 | S10 | W32 | 4175 | 05 10.1 | 15 | SN C | 7.3 | 3 | C | | 43 | | | |
| 0261 | | 12 | 1235 | 1247 | 1258 | N08 | E68 | 4174 | 05 17.6 | 23 | SN | | | | | 61 | | | |
| | RAMY | 12 | 1235 | 1247 | 1258 | N08 | E69 | 4174 | 05 17.7 | 23 | SF | | | 3 | C | 72 | | | |
| | HOLL | 12 | 1238E | 1238U | 1250D | N09 | E67 | 4174 | 05 17.5 | 120 | SN | | | 3 | C | 50 | | | |
| 0262 | RAMY | 12 | 1325 | 1331 | 1334 | S34 | E05 | 4171 | 05 12.9 | 9 | SF | | | 3 | C | | 22 | | |
| 0263 | | 12 | 1333* | 1337* | 1449 | S11 | W43 | 4173 | 05 9.3 | 76 | SB M | 2.2 | | | | 154 | 5.1 | EFK | |
| | RAMY | 12 | 1333 | 1337 | 1411 | S12 | W44 | 4173 | 05 9.2 | 38 | SB M | 2.2 | 3 | C | | 93 | | | |
| | HOLL | 12 | 1334E | 1340 | 1515 | S12 | W44 | 4173 | 05 9.2 | 101D | IB M | 2.2 | 3 | C | | 195 | | FEK | |
| | HOLL | 12 | 1334E | 1500 | 1515 | S12 | W44 | 4173 | 05 9.2 | 101D | SN | | 3 | C | | 29 | K | | |
| | ATHN | 12 | 1343E | 1345 | 1400D | S10 | W38 | 4173 | 05 9.7 | 17D | IB | | 2 | V | 1345 | 382 | 5.1 | | |
| | RAMY | 12 | 1416 | 1419 | 1436 | S11 | W44 | 4173 | 05 9.3 | 20 | SN | | 3 | C | | 74 | | | |
| 0264 | | 12 | 15281 | 15311 | 1534 | S07 | W42 | 4173 | 05 9.5 | 6 | SB C | 2.5 | | | | 60 | | | |
| | RAMY | 12 | 1528 | 1531 | 1534 | S08 | W42 | 4173 | 05 9.5 | 6 | SN C | 2.5 | 3 | C | | 59 | | | |
| | HOLL | 12 | 1529 | 1532 | 1535 | S06 | W42 | 4173 | 05 9.5 | 6 | SB C | 2.5 | 3 | C | | 61 | | | |
| 0265 | HOLL | 12 | 1611 | 1612 | 1628 | S08 | E05 | 4172 | 05 13.0 | 17 | SF | | | 3 | C | | 38 | F | |
| 0266 | | 12 | 16191 | 16211 | 1631 | S08 | W44 | 4173 | 05 9.4 | 12 | SN C | 3.4 | | | | 70 | | F | |
| | HOLL | 12 | 1619 | 1621 | 1634 | S08 | W44 | 4173 | 05 9.4 | 15 | SN C | 3.4 | 3 | C | | 70 | | F | |
| | RAMY | 12 | 1620 | 1622 | 1628 | S09 | W45 | 4173 | 05 9.3 | 8 | SN C | 3.4 | 3 | C | | 70 | | | |
| 0267 | | 12 | 16336 | 1640 | 1704 | N09 | E74 | 4174 | 05 18.2 | 31 | SB | | | | | 48 | | | |
| | HOLL | 12 | 1633 | 1640 | 1704 | N09 | E75 | 4174 | 05 18.3 | 31 | SB | | | 3 | C | 60 | | | |
| | RAMY | 12 | 1639 | 1640 | 1704 | N09 | E72 | 4174 | 05 18.1 | 25 | SB | | | 3 | C | 37 | | | |
| 0268 | HOLL | 12 | 1639 | 1641 | 1656 | S10 | E06 | 4172 | 05 13.1 | 17 | SF | | | 3 | C | | 32 | | |
| 0269 | | 12 | 16531 | 1654 | 1700 | S08 | W39 | 4175 | 05 9.8 | 7 | SN | | | | | 24 | | | |
| | HOLL | 12 | 1653 | 1654 | 1657 | S09 | W40 | 4175 | 05 9.7 | 4 | SN | | | 3 | C | 26 | | | |
| | HOLL | 12 | 1654 | 1654 | 1704 | S08 | W38 | 4175 | 05 9.8 | 10 | SN | | | 3 | C | 23 | | | |
| 0270 | HOLL | 12 | 1712 | 1717 | 1721 | N07 | E70 | 4174 | 05 18.0 | 9 | SF | | | 3 | C | | 21 | | |
| 0271 | | 12 | 1720* | 1721* | 1735 | S10 | W47 | 4173 | 05 9.2 | 15 | SN C | 2.4 | | | | 25 | | FH | |
| | PALE | 12 | 1720 | 1722 | 1742 | S09 | W48 | 4173 | 05 9.1 | 22 | EN | | | 3 | C | 25 | | F | |
| | RAMY | 12 | 1721 | 1721 | 1724 | S10 | W46 | 4173 | 05 9.3 | 3 | SN C | 2.4 | 3 | C | | 18 | | | |
| | HOLL | 12 | 1721 | 1721 | 1732 | S09 | W48 | 4173 | 05 9.1 | 11 | SB C | 2.4 | 3 | C | | 29 | | H | |
| | HOLL | 12 | 1736 | 1737 | 1743 | S11 | W46 | 4173 | 05 9.3 | 7 | SN | | | 3 | C | 29 | | H | |

70
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day | Max Day | End (UT) | NOAA/USAF | | | | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | |
|-------|------|-----------|---------|----------|-----------|-----------------|--------|------|-----|-----------------------|-----------|-----|-----|-----------|------------------|---------|------|
| | | | | | Lat | CMD | Region | Mo | Day | Apparent (10^-6 Disk) | | | | | Corr (Sq Deg) | Remarks | |
| 0272 | 12 | 17471 | 17471 | 1752 | S08 | W38 | 4175 | 05 | 9.9 | 5 | SB | | | | 34 | | |
| | HOLL | 12 | 1747 | 1747 | 1752D | S07 | W38 | 4175 | 05 | 9.9 | 50 | SB | 3 | C | 47 | | |
| | RAMY | 12 | 1748 | 1748 | 1752 | S09 | W39 | 4175 | 05 | 9.8 | 1 | SN | 3 | C | 20 | | |
| 0273 | HOLL | 12 | 1938 | 1938 | 1954 | S11 | E06 | 4172 | 05 | 13.3 | 16 | SF | C | 1.8 | 3 | C | 29 |
| 0274 | HOLL | 12 | 2028 | 2036 | 2117 | S10 | E03 | 4172 | 05 | 13.1 | 49 | SN | | | 3 | C | 134 |
| 0275 | | 12 | 2040 | 2045 | 2114 | S07 | W42 | 4175 | 05 | 9.7 | 34 | IN | C | 3.5 | | | 176 |
| | HOLL | 12 | 2040 | 2045 | 2102 | S07 | W40 | 4175 | 05 | 9.9 | 22 | SN | 3 | C | 50 | | FH |
| | HOLL | 12 | 2040 | 2045 | 2125 | S07 | W45 | 4175 | 05 | 9.5 | 45 | IN | C | 3.5 | 3 | C | 301 |
| 0276 | | 12 | 21005 | 2100 | 2110 | S31 | E04 | 4171 | 05 | 13.2 | 10 | SF | | | | | 48 |
| | HOLL | 12 | 2100 | 2105 | 2105 | S31 | E03 | 4171 | 05 | 13.1 | 5 | SF | 3 | C | 26 | | F |
| | HOLL | 12 | 2105 | 2110 | 2115 | S31 | E05 | 4171 | 05 | 13.3 | 10 | SF | 3 | C | 70 | | F |
| 0277 | HOLL | 12 | 2141 | 2142 | 2146 | S31 | E02 | 4171 | 05 | 13.1 | 5 | SN | C | 1.2 | 3 | C | 23 |
| | | 12 | 2207 | | 2215 | No Flare Patrol | | | | | | | | | | | |
| 0278 | HOLL | 12 | 2221 | 2222 | 2317 | S29 | E03 | 4171 | 05 | 13.2 | 56 | SN | C | 1.7 | 3 | C | 46 |
| 0279 | HOLL | 12 | 2226 | 2228 | 2240 | S10 | E02 | 4172 | 05 | 13.1 | 14 | SF | | | 3 | C | 37 |
| 0280 | | 13 | 0009* | 00266 | 0034 | S09 | W52 | 4173 | 05 | 9.1 | 25 | SF | | | | | 63 |
| | HOLL | 13 | 0009 | 0026 | 0.32 | S09 | W51 | 4173 | 05 | 9.2 | 23 | SN | 3 | C | 57 | | DF |
| | PEKG | 13 | 0027 | 0032 | 0037 | S09 | W53 | 4173 | 05 | 9.0 | 10 | SF | 3 | C | 25 | | F |
| | LEAR | 13 | 0028E | 0029 | 0040D | S10 | W51 | 4173 | 05 | 9.2 | 12D | SF | 2 | C | 106 | | D |
| 0281 | | 13 | 00104 | 0015 | 0026 | S10 | E00 | 4172 | 05 | 13.0 | 16 | SF | | | | | 55 |
| | PEKG | 13 | 0010 | 0015 | 0021 | S11 | E00 | 4172 | 05 | 13.0 | 11 | SF | 3 | C | 46 | | EF |
| | PALE | 13 | 0014 | 0015 | 0023 | S11 | W01 | 4172 | 05 | 12.9 | 9 | SF | 3 | C | 31 | | E |
| | HOLL | 13 | 0014 | 0015 | 0025 | S10 | E01 | 4172 | 05 | 13.1 | 11 | SF | 3 | C | 52 | | F |
| | LEAR | 13 | 0014 | 0015 | 0034 | S10 | W00 | 4172 | 05 | 13.0 | 20 | SF | 3 | C | 91 | | |
| 0282 | | 13 | 0057 | 0100 | 0112 | S29 | E02 | 4171 | 05 | 13.2 | 15 | SN | | | | | 36 |
| | HOLL | 13 | 0057 | 0100 | 0109 | S29 | E01 | 4171 | 05 | 13.1 | 12 | SF | 3 | C | 26 | | F |
| | YUNN | 13 | 0057 | 0100 | 0116 | S29 | E03 | 4171 | 05 | 13.3 | 19 | SN | 3 | C | 47 | | F |
| 0283 | | 13 | 0141 | 0143 | 0145 | S10 | W43 | 4175 | 05 | 9.8 | 4 | SF | | | | | 31 |
| | PALE | 13 | 0138E | 0141U | 0145 | S11 | W43 | 4175 | 05 | 9.8 | 7D | SF | 3 | C | 20 | | E |
| | PEKG | 13 | 0141 | 0143 | 0145 | S09 | W43 | 4175 | 05 | 9.8 | 4 | SF | 3 | C | 42 | | E |
| 0284 | LEAR | 13 | 0246 | 0250 | 0306 | S09 | E20 | 4176 | 05 | 14.6 | 20 | SF | C | 1.2 | 3 | C | 63 |
| 0285 | LEAR | 13 | 0338 | 0340 | 0349 | S08 | E19 | 4176 | 05 | 14.6 | 11 | SF | | | 3 | C | 23 |
| 0286 | ABST | 13 | 0406 | 0410 | 0420 | S10 | W56 | 4173 | 05 | 9.0 | 14 | 1F | | | | C | 0410 |
| 0287 | ABST | 13 | 0408 | 0410 | 0416 | S30 | W02 | 4171 | 05 | 13.0 | 8 | SF | | | | C | 0410 |
| 0288 | ABST | 13 | 0447 | 0452 | 0505 | S10 | E20 | 4176 | 05 | 14.7 | 18 | SF | | | | C | 0452 |
| 0289 | ABST | 13 | 0458 | 0500 | 0510 | S10 | E01 | 4172 | 05 | 13.3 | 12 | SF | | | | C | 0500 |
| 0290 | | 13 | 0552 | 0555 | 0602 | S12 | W54 | 4173 | 05 | 9.2 | 10 | IN | | | | | 127 |
| | ABST | 13 | 0552 | 0555 | 0602 | S10 | W56 | 4173 | 05 | 9.0 | 10 | 1F | | | | C | 0555 |
| | CULG | 13 | 0632E | 0637U | 0637D | S13 | W51 | 4173 | 05 | 9.4 | 50 | SN | P | | | P | 0637 |
| 0291 | | 13 | 0630 | 06307 | 0655 | S09 | W03 | 4172 | 05 | 13.0 | 25 | SF | | | | | 147 |
| | CULG | 13 | 0627E | 0631U | 0634D | S09 | W01 | 4172 | 05 | 13.2 | 7D | SN | | | | P | 0631 |
| | LEAR | 13 | 0629E | 0630 | 0700 | S11 | W03 | 4172 | 05 | 13.0 | 31D | SF | 3 | C | | | 160 |
| | KANZ | 13 | 0629E | 0631 | 0655 | S10 | W02 | 4172 | 05 | 13.1 | 26D | SN | 3 | C | | | SC |
| | ATHN | 13 | 0629E | 0632 | 0649 | S07 | W07 | 4172 | 05 | 12.7 | 20D | SF | 3 | V | | P | 0632 |
| | BUCA | 13 | 0630 | 0637 | 0705 | S08 | W02 | 4172 | 05 | 13.1 | 35 | 1F | | | | C | 0637 |
| | PEKG | 13 | 0636E | 0636 | 0646 | S10 | W03 | 4172 | 05 | 13.0 | 10D | SF | P | | | P | 0636 |
| 0292 | | 13 | 06301 | 06364 | 0649 | S08 | W53 | 4173 | 05 | 9.3 | 19 | SB | C | 6.2 | | | 135 |
| | ATHN | 13 | 0629E | 0640 | 0648 | S07 | W55 | 4173 | 05 | 9.1 | 19D | SB | 3 | V | | C | 0640 |
| | BUCA | 13 | 0630 | 0636 | 0655 | S08 | W52 | 4173 | 05 | 9.4 | 25 | 1N | | | | C | 0636 |
| | KANZ | 13 | 0631 | 0636 | 0646 | S08 | W52 | 4173 | 05 | 9.4 | 15 | SN | 3 | C | | | 215 |
| | LEAR | 13 | 0631 | 0637 | 0647 | S08 | W53 | 4173 | 05 | 9.3 | 16 | SB | C | 6.2 | | P | 0636 |
| | PEKG | 13 | 0636E | 0636 | 0646 | S08 | W53 | 4173 | 05 | 9.3 | 10D | SB | C | 6.2 | | P | 0636 |

H - ALPHA SOLAR FLARES

71
May 83

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF Region | OMP Mo Day | Dur (Min) | Imp | Obs | Area Measurement | | | |
|-------|---------|----------------|----------|----------|-----|------------------|------------|-----------|------|------|------------------|-----------------------|---------------|---------|
| | | | | | | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) | Remarks |
| 0293 | 13 KANZ | 07151 | 07182 | 0723 | S12 | W53 | 4173 | 05 | 9.3 | 8 | SF C | 1.9 | 21 | |
| | 13 LEAR | 0715 | 0718 | 0723 | S13 | W50 | 4173 | 05 | 9.5 | 8 | SF | | | |
| | 13 LEAR | 0716 | 0720 | 0723 | S11 | W56 | 4173 | 05 | 9.1 | 7 | SF C | 1.9 | 21 | |
| 0294 | 13 LEAR | 07443 | 07467 | 0759 | S08 | E18 | 4176 | 05 | 14.7 | 15 | SN C | 2.2 | 74 | .8 E |
| | 13 BUC | 0744 | 0747 | 08000 | S08 | E17 | 4176 | 05 | 14.6 | 160 | SN C | 2.2 | 93 | |
| | 13 PEKG | 0745 | 07500 | 0800 | S07 | E18 | 4176 | 05 | 14.7 | 15 | SN | | 107 | 1.2 E |
| | 13 KANZ | 0746 | 0756 | 0803 | S08 | E17 | 4176 | 05 | 14.6 | 100 | SF C | 2.2 | 25 | .3 E |
| | 13 ATHN | 0746E | 0753 | 0803 | S09 | E17 | 4176 | 05 | 14.7 | 11 | SN | | 64 | .7 |
| | 13 CATA | 0750E | 0750 | 07550 | S09 | E18 | 4176 | 05 | 14.7 | 50 | S | | 84 | 1.0 |
| 0295 | LEAR | 13 0847 | 0850 | 0901 | S30 | W02 | 4171 | 05 | 13.2 | 14 | SF | | 29 | |
| 0296 | 13 KHAR | 0910E | 0918 | 0923 | S14 | W51 | 4173 | 05 | 9.5 | 130 | SF | | 29 | .4 D |
| | 13 HTPR | 0910E | 09170 | 0923 | S14 | W52 | 4173 | 05 | 9.4 | 70 | SF | | 50 | .7 D |
| | 13 PEKG | 0918E | 0926 | 0926 | S14 | W50 | 4173 | 05 | 9.6 | 80 | SF | | 20 | .3 |
| | 13 PEKG | 0918E | 0918 | 0920 | S13 | W52 | 4173 | 05 | 9.5 | 20 | SN | | 17 | .3 D |
| 0297 | 13 KHAR | 10182 | 10244 | 1032 | S09 | W54 | 4173 | 05 | 9.4 | 14 | SN C | 3.4 | 130 | 2.2 H |
| | 13 WEND | 1018 | 1024 | 1030 | S08 | W54 | 4173 | 05 | 9.4 | 12 | IN C | 3.4 | 1024 | 2.3 |
| | 13 KHAR | 1020E | 1024 | 10310 | S09 | W56 | 4173 | 05 | 9.2 | 110 | SN | | 110 | 1.9 |
| | 13 CATA | 1020 | 1025 | 10250 | S08 | W55 | 4173 | 05 | 9.3 | 50 | 1 | | 1025 | 5.0 |
| | 13 HTPR | 1022E | | | S08 | W53 | 4173 | 05 | 9.4 | 30 | SB | | 1025 | 1.3 |
| | 13 ATHN | 1025E | 1028 | 1035 | S10 | W48 | 4173 | 05 | 9.8 | 100 | SB | | 48 | .7 |
| 0298 | 13 HTPR | 10562 | 10595 | 1108 | S11 | W05 | 4172 | 05 | 13.1 | 12 | SF | | 50 | .5 |
| | 13 HTPR | 1056 | 1059 | 1109 | S11 | W03 | 4172 | 05 | 13.2 | 13 | SF | | 60 | .6 |
| | 13 HTPR | 1058 | 1104 | 1108 | S11 | W07 | 4172 | 05 | 12.9 | 10 | SF | | 40 | .4 |
| 0299 | 13 WEND | 11086 | 1110* | 1135 | S09 | W50 | 4175 | 05 | 9.7 | 27 | SN | | 70 | 1.2 E |
| | 13 HTPR | 1110 | 11220 | 11220 | S07 | W52 | 4175 | 05 | 9.6 | 140 | SN | | 106 | 1.8 |
| | 13 ATHN | 1110 | 1112 | 1131 | S10 | W52 | 4175 | 05 | 9.5 | 21 | SN | | 30 | .5 |
| | 13 CATA | 1114 | 1117 | 1133 | S10 | W46 | 4175 | 05 | 10.0 | 19 | SN | | 32 | .5 |
| | 13 HTPR | 1115E | 1120 | 1140 | S08 | W50 | 4175 | 05 | 9.7 | 250 | S | | 112 | 1.8 |
| 0300 | HTPR | 13 1134 | 1138 | 1155 | S30 | W04 | 4171 | 05 | 13.2 | 21 | SF | | 60 | .7 E |
| 0301 | 13 HTPR | 12379 | 1244* | 1310 | S30 | W04 | 4171 | 05 | 13.2 | 33 | SN | | 39 | .5 DE |
| | 13 KAND | 1237 | 1244 | 1316 | S30 | W05 | 4171 | 05 | 13.1 | 39 | SN | | 60 | .7 E |
| | 13 HOLL | 1246 | 1252 | 1304 | S29 | W03 | 4171 | 05 | 13.3 | 18 | SF | | 27 | .3 D |
| | 13 HOLL | 1246E | 1254 | 1310 | S31 | W03 | 4171 | 05 | 13.3 | 240 | SN | | 30 | |
| 0302 | 13 RAMY | 14201 | 14214 | 1501 | S10 | W59 | 4173 | 05 | 9.2 | 41 | SN C | 4.8 | 51 | .9 EF |
| | 13 HOLL | 1420 | 1421 | 16270 | S10 | W59 | 4173 | 05 | 9.2 | 1270 | SB C | 4.8 | 56 | |
| | 13 HOLL | 1420 | 1425 | 1502 | S09 | W55 | 4173 | 05 | 9.5 | 42 | SN C | 4.8 | 58 | F |
| | 13 HTPR | 1421 | 1424 | 1500 | S10 | W63 | 4173 | 05 | 8.9 | 39 | SN | | 40 | .9 E |
| 0303 | HOLL | 13 1448 | 1453 | 1459 | N07 | E57 | 4174 | 05 | 17.9 | 11 | SF | | 19 | |
| 0304 | HOLL | 13 1724 | 1725 | 1742 | S08 | W51 | 4175 | 05 | 9.9 | 18 | SF | | 30 | |
| 0305 | HOLL | 13 1810 | 1811 | 1816 | S07 | W58 | 4173 | 05 | 9.4 | 6 | SF | | 27 | F |
| 0306 | HOLL | 13 1840 | 1841 | 1852 | S07 | W53 | 4175 | 05 | 9.8 | 12 | SF C | 1.3 | 26 | F |
| 0307 | 13 HOLL | 1840 | 1844* | 1933 | S10 | W60 | 4173 | 05 | 9.3 | 53 | SN C | 2.1 | 48 | FK |
| | 13 HOLL | 1840 | 1844 | 1933 | S10 | W60 | 4173 | 05 | 9.3 | 53 | SN | | 32 | K |
| | 13 HOLL | 1840 | 1905 | 1933 | S10 | W60 | 4173 | 05 | 9.3 | 53 | SN C | 2.1 | 64 | FK |
| 0308 | HOLL | 13 1941 | 1947 | 2005 | S06 | W54 | 4175 | 05 | 9.8 | 24 | SF | | 34 | |
| 0309 | HOLL | 13 2040 | 2040 | 2057 | N07 | E52 | 4174 | 05 | 17.7 | 17 | SF | | 29 | |
| 0310 | HOLL | 13 2139 | 2140 | 2147 | S10 | W11 | 4172 | 05 | 13.1 | 8 | SF | | 23 | |
| 0311 | HOLL | 13 2224 | 2226 | 22340 | S09 | W62 | 4173 | 05 | 9.3 | 100 | SF | | 33 | |

72
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | Region | Cmp Mo | Dur (Min) | Imp Opt | Xray See | Obs Type | Area Measurement | | | | | | | |
|----------|------|--------------|-------------|-------------|-------|----------------------|--------|-----------|--------------|------------|-------------|-------------|------------------|-------------------------------------|------------------|---------|------|-----|---|--|
| | | | | | | | | | | | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | | | | |
| 0312 | 13 | 23336 | 23401 | 2358 | S07 | W57 | 4175 | 05 | 9.7 | 25 | SN C | 1.1 | | 46 | 1.5 | DJ | | | | |
| | HOLL | 13 | 2333 | 2340 | 2407 | S06 | W56 | 4175 | 05 | 9.8 | 34 | SN | 3 | C | 31 | | | | | |
| | VORO | 13 | 2338 | 2341 | 2350 | S08 | W57 | 4175 | 05 | 9.7 | 12 | SN | 3 | C | 81 | 1.5 | DJ | | | |
| | HOLL | 13 | 2339 | 2340 | | S08 | W58 | 4175 | 05 | 9.6 | | SN C | 1.1 | 3 | C | 26 | | | | |
| 0313 | | 13 | 2356 | 24053 | 2428 | N12 | E60 | 4182 | 05 | 18.5 | 32 | 2F | | | 218 | 4.6 | FJ | | | |
| | VORO | 13 | 2356 | 2405 | 2428 | N12 | E60 | 4182 | 05 | 18.5 | 32 | 2F | | C | 305 | 6.7 | J | | | |
| | CULG | 14 | 0002E | 0008 | 0028 | N12 | E59 | 4182 | 05 | 18.4 | 260 | 1F | | P | 0008 | 2.6 | F | | | |
| 0314 | HOLL | 14 | 0015 | 0030 | 0038 | S11 | W63 | 4173 | 05 | 9.3 | 23 | SF | 3 | C | 23 | | F | | | |
| 0315 | LEAR | 14 | 0236 | 0251 | 0301 | S08 | W59 | 4175 | 05 | 9.7 | 25 | SF | 3 | C | 67 | | F | | | |
| 0316 | LEAR | 14 | 0307 | 0309 | 0318 | S12 | W63 | 4173 | 05 | 9.4 | 11 | SN | 3 | C | 36 | | | | | |
| 0317 | | 14 | 0347* | 0408* | 0453 | S11 | W68 | 4173 | 05 | 9.0 | 66 | IN C | 4.7 | | 128 | 3.5 | EFK | | | |
| | MANI | 14 | 0347 | 0408 | 0519 | S11 | W70 | 4173 | 05 | 8.9 | 92 | IN | 1 | V | 158 | 3.5 | F | | | |
| | LEAR | 14 | 0347 | 0417 | 0519 | S11 | W67 | 4173 | 05 | 9.1 | 92 | IN C | 4.7 | 3 | C | 176 | | F | | |
| | PURP | 14 | 0403E | 0409 | 0432 | S13 | W68 | 4173 | 05 | 9.0 | 290 | IN | | C | 0409 | 83 | | | | |
| | YUNN | 14 | 0410E | 0415 | 0430 | S10 | W63 | 4173 | 05 | 9.2 | 200 | IN | | P | | 94 | | | | |
| | ABST | 14 | 0419 | 0424 | 0446 | S11 | W70 | 4173 | 05 | 8.9 | 27 | IN | | C | 0424 | 131 | | EK | | |
| 0318 | ABST | 14 | 0451 | 0454 | 0504 | S06 | W63 | 4175 | 05 | 9.5 | 13 | 1F | | C | 0454 | 87 | 2.8 | D | | |
| 0319 | | 14 | 06287 | 0629* | 0642 | S12 | W74 | 4173 | 05 | 8.7 | 14 | SF C | 2.0 | | 24 | 2.0 | | | | |
| | LEAR | 14 | 0628 | 0629 | 0641 | S10 | W71 | 4173 | 05 | 8.9 | 13 | SF C | 2.0 | 3 | C | 15 | | | | |
| | HTPR | 14 | 0628 | 0631 | 0647 | S11 | W76 | 4173 | 05 | 8.5 | 19 | SF | | C | 0631 | 10 | | | | |
| | LEAR | 14 | 0633 | 0634 | 0640 | S13 | W75 | 4173 | 05 | 8.6 | 7 | SF | 3 | C | | | | | | |
| | MANI | 14 | 0634 | 0634 | 0641 | S13 | W75 | 4173 | 05 | 8.6 | 7 | SF | 1 | V | | | | | | |
| | ATHN | 14 | 0635 | 0639 | 0643 | S12 | W76 | 4173 | 05 | 8.5 | 8 | SF | 3 | V | 0639 | 48 | 2.0 | | | |
| 0320 | | 14 | 0630* | 0657* | 0820 | S27 | W21 | 4171 | 05 | 12.6 | 110 | IN | | | 259 | 2.6 | EFHW | | | |
| | HTPR | 14 | 0630 | | 0719D | S25 | W21 | 4171 | 05 | 12.6 | 490 | SN | | C | 0704 | 80 | .9 | | | |
| | LEAR | 14 | 0633 | 0703 | 0911 | S24 | W22 | 4171 | 05 | 12.6 | 158 | IN | 3 | C | 260 | | F | | | |
| | MANI | 14 | 0633 | 0704 | 0743 | S24 | W22 | 4171 | 05 | 12.6 | 70 | IN | 1 | V | 260 | 3.1 | F | | | |
| | BUCA | 14 | 0640 | 0725U | 0800 | S29 | W22 | 4171 | 05 | 12.5 | 80 | IN | | C | 0725 | 322 | 3.9 | E | | |
| | HTPR | 14 | 0641 | | 0719D | S31 | W19 | 4171 | 05 | 12.8 | 380 | SN | | C | 0704 | 60 | .7 | | | |
| | PURP | 14 | 0642 | 0650U | 0714D | S26 | W20 | 4171 | 05 | 12.7 | 320 | SN | | C | 0650 | 103 | 1.2 | | | |
| | CATA | 14 | 0645 | 0725 | 0810D | S31 | W19 | 4171 | 05 | 12.8 | 850 | 1 | | P | 0725 | 225 | 2.8 | | | |
| | CATA | 14 | 0645 | 0725 | 0810D | S25 | W23 | 4171 | 05 | 12.5 | 850 | 1 | | P | 0725 | 337 | 4.1 | | | |
| | ATHN | 14 | 0651 | 0708 | 0844 | S27 | W20 | 4171 | 05 | 12.7 | 113 | SN | 3 | V | 0708 | 64 | .8 | | | |
| | ABST | 14 | 0652 | 0657 | 0703D | S26 | W23 | 4171 | 05 | 12.5 | 11D | IN | | P | 0657 | 174 | 2.1 | E | | |
| | MANI | 14 | 0653 | 0707 | 0745 | S27 | W20 | 4171 | 05 | 12.7 | 52 | IN | 1 | V | | 220 | 2.7 | | | |
| | YUNN | 14 | 0653 | 0720 | 0813 | S26 | W21 | 4171 | 05 | 12.6 | 80 | 2B | | P | | 550 | 6.6 | FW | | |
| | KANZ | 14 | 0654E | 0724 | 0816 | S28 | W21 | 4171 | 05 | 12.6 | 82D | IN | 3 | | | | | | | |
| | HTPR | 14 | 0703 | | 0719D | S30 | W24 | 4171 | 05 | 12.4 | 16D | SN | | C | 0719 | 40 | .5 | | | |
| | MITK | 14 | 0716E | 0722 | 0729 | S28 | W20 | 4171 | 05 | 12.7 | 13D | 2N | | C | 0722 | 680 | 8.3 | F | | |
| | HTPR | 14 | 0724E | | 0738D | S30 | W23 | 4171 | 05 | 12.5 | 14D | SN | | C | 0734 | 40 | .5 | | | |
| | HTPR | 14 | 0724E | | 0738D | S25 | W21 | 4171 | 05 | 12.7 | 14D | SN | | C | 0734 | 100 | 1.1 | | | |
| | HTPR | 14 | 0724E | | 0738D | S31 | W19 | 4171 | 05 | 12.8 | 14D | SN | | C | 0738 | 80 | .9 | | | |
| | MONT | 14 | 0743E | 0748 | 0838 | S29 | W20 | 4171 | 05 | 12.7 | 550 | 2B | | C | 0748 | 900 | | H | | |
| | KANZ | 14 | 0754 | 0857 | 0925 | S25 | W23 | 4171 | 05 | 12.5 | 91 | SF | 3 | | | | | | | |
| | KHAR | 14 | 0801E | 0802 | 0851D | S27 | W22 | 4171 | 05 | 12.6 | 500 | 1F | | P | 0802 | 420 | 4.6 | EH | | |
| 0321 | | 14 | 07249 | 07332 | 0745 | S12 | W71 | 4173 | 05 | 8.9 | 21 | SB M | 1.8 | | | 106 | 3.6 | DEF | | |
| | KANZ | 14 | 0724 | 0735 | 0740 | S12 | W70 | 4173 | 05 | 9.0 | 16 | SN | 3 | | | | | | | |
| | MANI | 14 | 0725 | 0733 | 0751 | S11 | W70 | 4173 | 05 | 9.0 | 26 | 1B | 1 | V | | | 142 | 3.1 | | |
| | LEAR | 14 | 0725 | 0735 | 0752 | S11 | W70 | 4173 | 05 | 9.0 | 27 | SB M | 1 | 3 | C | | 107 | | F | |
| | HTPR | 14 | 0728 | | 0738D | S12 | W77 | 4173 | 05 | 8.5 | 100 | SN | | C | 0735 | 60 | | | | |
| | ISTA | 14 | 0730E | 0738 | 0743 | S13 | W68 | 4173 | 05 | 9.2 | 80 | SN | | C | 0735 | | | | D | |
| | YUNN | 14 | 0730 | 0734 | 0743 | S12 | W73 | 4173 | 05 | 8.8 | 13 | 1B | | P | | 79 | | | | |
| | ATHN | 14 | 0730 | 0734 | 0748 | S10 | W68 | 4173 | 05 | 9.2 | 18 | 1B | 3 | V | 0734 | 159 | 4.2 | | | |
| | BUCA | 14 | 0733 | 0734 | 0746 | S12 | W70 | 4173 | 05 | 9.0 | 13 | SN | 3 | C | 0734 | 86 | | | E | |
| 0322 | | 14 | 08352 | 0837* | 0911 | S11 | W72 | 4173 | 05 | 8.9 | 36 | SN C | 5.0 | | | 48 | | | | |
| | LEAR | 14 | 0835 | 0837 | 0907 | S10 | W71 | 4173 | 05 | 9.0 | 32 | SN C | 5.0 | 3 | C | | 27 | | | |
| | KHAR | 14 | 0835E | 0841 | 0857D | S10 | W73 | 4173 | 05 | 8.9 | 21D | SN | | P | 0837 | | | | E | |
| | MONT | 14 | 0836 | 0905 | 0920 | S12 | W70 | 4173 | 05 | 9.1 | 44 | SN | | C | 0905 | 70 | | | E | |
| | KANZ | 14 | 0837 | 0837 | 0907 | S11 | W72 | 4173 | 05 | 8.9 | 30 | SN | 3 | | | | | | | |

H - ALPHA SOLAR FLARES

73
May 83

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/USAF | | | | | | Dur (Min) | Imp | Obs | Area Measurement | | | | | |
|-------|------|----------------|----------|----------|-----------------|-----|--------|----|------|-----|-----------|-----|-----|------------------|------|------|-----------|---------------------|---------------|
| | | | | | Lat | CMD | Region | No | Day | Opt | | | | X-ray | See | Type | Time (UT) | Apparent (10° Disk) | Corr (Sq Deg) |
| 0323 | 14 | 0956 | 09508 | 1008 | S10 | W64 | 4173 | 05 | 9.6 | 12 | SN | | | | | | 56 | 1.3 | D |
| | CATA | 14 0945E | 0950 | 1010 | S10 | W64 | 4173 | 05 | 9.6 | 250 | S | | P | 0950 | | 84 | 2.0 | | |
| | KHAR | 14 0953E | 0957 | 1003D | S09 | W64 | 4173 | 05 | 9.6 | 80 | SN | | P | 0957 | | | | D | |
| | WEND | 14 0956 | 0958 | 1006 | S11 | W64 | 4173 | 05 | 9.6 | 10 | SN | | C | 0958 | | 38 | .9 | | |
| | YUNN | 14 1001E | 1001U | 10050 | S11 | W65 | 4173 | 05 | 9.5 | 40 | SN | | P | 1001 | | 46 | 1.1 | D | |
| 0324 | 14 | 1044 | 1046 | 1048 | S12 | W71 | 4173 | 05 | 9.1 | 4 | SN | | | | | 31 | | D | |
| | WEND | 14 1044 | 1046 | 1048 | S11 | W70 | 4173 | 05 | 9.2 | 4 | SF | | C | 1046 | | 31 | | | |
| | KHAR | 14 1046E | 1046 | 1052D | S12 | W72 | 4173 | 05 | 9.0 | 60 | SN | | P | | | | | D | |
| 0325 | HOLL | 14 1413 | 1414 | 1420 | S10 | W70 | 4173 | 05 | 9.3 | 7 | SN C | 3.2 | 3 | C | | 38 | | | |
| 0326 | 14 | 1439 | 14391 | 1500 | S10 | W22 | 4172 | 05 | 12.9 | 21 | SF | | | | | 38 | | F | |
| | KANZ | 14 1439 | 1439 | 1449 | S10 | W22 | 4172 | 05 | 12.9 | 10 | SF | | 3 | | | | | | |
| | HOLL | 14 1439 | 1440 | 1511 | S10 | W21 | 4172 | 05 | 13.0 | 32 | SF | | 3 | C | | 38 | | F | |
| 0327 | HOLL | 14 1515 | 1532 | 1535 | S10 | W72 | 4173 | 05 | 9.2 | 20 | SF | | 3 | C | | 19 | | F | |
| 0328 | HOLL | 14 1535 | 1620 | 1655 | S11 | W68 | 4173 | 05 | 9.5 | 80 | SN C | 5.1 | 3 | C | | 78 | | F | |
| 0329 | HOLL | 14 1606 | 1607 | 1609 | S11 | W24 | 4172 | 05 | 12.9 | 3 | SF | | 3 | C | | 27 | | | |
| 0330 | HOLL | 14 1613 | 1615 | 1644 | S30 | W18 | 4171 | 05 | 13.3 | 31 | SF | | 3 | C | | 122 | | F | |
| 0331 | HOLL | 14 1615 | 1617 | 1627 | N08 | E45 | 4174 | 05 | 18.0 | 12 | SF | | 3 | C | | 25 | | | |
| 0332 | HOLL | 14 1620 | 1620 | 1630 | S10 | W24 | 4172 | 05 | 12.9 | 10 | SN | | 3 | C | | 39 | | F | |
| 0333 | 14 | 1635 | 1635* | 1659 | S11 | W25 | 4172 | 05 | 12.8 | 24 | SF | | | | | 44 | | XS | |
| | HOLL | 14 1635 | 1635 | 1659 | S11 | W25 | 4172 | 05 | 12.8 | 24 | SF | | 3 | C | | 33 | | K | |
| | HOLL | 14 1635 | 1648 | 1659 | S11 | W25 | 4172 | 05 | 12.8 | 24 | SF | | 3 | C | | 56 | | SK | |
| 0334 | PALE | 14 1707 | 1708 | 1718 | S08 | W66 | 4175 | 05 | 9.8 | 11 | SF | | 3 | C | | 20 | | | |
| 0335 | 14 | 1806 | 18071 | 1817 | S12 | W72 | 4173 | 05 | 9.3 | 11 | SB C | 2.2 | | | | 58 | | | |
| | HOLL | 14 1806 | 1807 | 1818 | S11 | W72 | 4173 | 05 | 9.3 | 12 | SB C | 2.2 | 3 | C | | 63 | | | |
| | PALE | 14 1806 | 1808 | 1816 | S14 | W72 | 4173 | 05 | 9.3 | 10 | SB | | 3 | C | | 53 | | | |
| 0336 | 14 | 19174 | 1923* | 1953 | S11 | W25 | 4172 | 05 | 12.9 | 36 | SN C | 2.4 | | | | 91 | | FK | |
| | PALE | 14 1917 | 1923 | 1944 | S12 | W25 | 4172 | 05 | 12.9 | 27 | SN C | 2.4 | 3 | C | | 98 | | F | |
| | HOLL | 14 1921 | 1923 | 1957 | S11 | W25 | 4172 | 05 | 12.9 | 36 | SN C | 2.4 | 3 | C | | 106 | | FK | |
| | HOLL | 14 1921 | 1944 | 1957 | S11 | W25 | 4172 | 05 | 12.9 | 36 | SN | | 3 | C | | 70 | | K | |
| | 14 | 2139 | | 2144 | No Flare Patrol | | | | | | | | | | | | | | |
| 0337 | 15 | 0018 | 00186 | 0036 | S26 | E80 | 4179 | 05 | 21.2 | 18 | SF C | 1.5 | | | | 134 | | AEFY | |
| | MANI | 15 0018 | 0018 | 0030 | S26 | E78 | 4179 | 05 | 21.1 | 12 | SF | | 1 | V | | | | F | |
| | LEAR | 15 0019E | 0019U | 0029 | S26 | E78 | 4179 | 05 | 21.1 | 10D | SF C | 1.5 | 3 | C | | | | F | |
| | PEKG | 15 0020E | 0024 | 0040 | S26 | E84 | 4179 | 05 | 21.5 | 20D | SN C | 1.5 | | | 0024 | 134 | | EY | |
| | YUNN | 15 0030E | 0030U | 0045 | S24 | E79 | 4179 | 05 | 21.1 | 150 | | | P | 0033 | | | | A | |
| 0338 | LEAR | 15 0212 | 0212 | 0226 | N10 | E38 | 4174 | 05 | 17.9 | 14 | SF | | 3 | C | | 37 | | | |
| 0339 | 15 | 02173 | 02201 | 0234 | S10 | W30 | 4172 | 05 | 12.8 | 17 | IN | | | | | 170 | | 3.7 | |
| | YUNN | 15 0217 | 0221 | 0237 | S10 | W31 | 4172 | 05 | 12.8 | 20 | IN | | | | | 308 | | 3.7 | |
| | LEAR | 15 0220 | 0220 | 0231 | S10 | W30 | 4172 | 05 | 12.8 | 11 | SF | | 3 | C | | 33 | | | |
| 0340 | YUNN | 15 0237 | 0240 | 0254 | N08 | E41 | 4174 | 05 | 18.2 | 17 | SN | | | | | 31 | | .4 | |
| 0341 | 15 | 03258 | 03351 | 0346 | S10 | W30 | 4172 | 05 | 12.9 | 21 | SN C | 2.1 | | | | 150 | | EF | |
| | YUNN | 15 0325 | 0335 | 0343 | S08 | W30 | 4172 | 05 | 12.9 | 18 | IN | | | | | 308 | | E | |
| | CULG | 15 0328E | 0333U | 0333D | S11 | W31 | 4172 | 05 | 12.9 | 50 | SN | | P | 0333 | | 120 | | 1.4 | |
| | LEAR | 15 0329 | 0336 | 0351 | S11 | W30 | 4172 | 05 | 12.9 | 22 | SN C | 2.1 | 3 | C | | 73 | | F | |
| | PEKG | 15 0333 | 0336 | 0343 | S10 | W31 | 4172 | 05 | 12.8 | 10 | SN C | 2.1 | C | 0336 | | 101 | | E | |
| 0342 | 15 | 0615* | 0641* | 0711 | S11 | W80 | 4173 | 05 | 9.2 | 56 | SN M | 2.0 | | | | 63 | | EF | |
| | LEAR | 15 0615 | 0641 | 0716 | S12 | W81 | 4173 | 05 | 9.1 | 61 | SN M | 2.0 | 3 | C | | | | F | |
| | KANZ | 15 0638 | 0648 | 0717 | S11 | W83 | 4173 | 05 | 9.0 | 39 | SN | | | | | | | | |
| | MANI | 15 0642 | 0642 | 0703 | S10 | W79 | 4173 | 05 | 9.3 | 21 | 1B | | 1 | V | | | | | |
| | CATA | 15 0645 | 0645 | 0720 | S11 | W78 | 4173 | 05 | 9.4 | 35 | 1 | | C | 0645 | | 84 | | | |
| | PEKG | 15 0647 | 0652 | 0659 | S11 | W82 | 4173 | 05 | 9.1 | 12 | SF | | C | 0652 | | 42 | | E | |

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | OMP Region | Dur Mo Day (Min) | Imp Opt | Obs Xray See | Area Measurement | | | | |
|----------|------|----------------------|-------------------|-------------|---------|----------------------|---------------|------------------------|------------|--------------------|------------------|--|------------------|------|---------|
| | | | | | | | | | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | | |
| 0343 | KANZ | 15 06483 | 06494 | 0709 | S11 W31 | 4172 | 05 | 12.9 | 21 | SF | | 42 | .5 | F | |
| | KANZ | 15 0648 | 0653 | 0712 | S11 W32 | 4172 | 05 | 12.9 | 24 | SF | 3 | | | | |
| | MANI | 15 0649 | 0649 | 0708 | S11 W29 | 4172 | 05 | 13.1 | 19 | SN | 1 | V | 45 | .5 | F |
| | LEAR | 15 0651 | 0652 | 0707 | S11 W33 | 4172 | 05 | 12.8 | 16 | SF | 3 | C | 40 | | |
| 0344 | KANZ | 15 0742 | 0742 | 0751 | S28 E81 | 4179 | 05 | 21.6 | 0 | SN | 3 | | | | |
| 0345 | LEAR | 15 07483 | 07492 | 0810 | S10 W33 | 4172 | 05 | 12.8 | 22 | SF | | | 45 | | F |
| | LEAR | 15 0748 | 0749 | 0809 | S10 W33 | 4172 | 05 | 12.8 | 21 | SF | 3 | C | 45 | | F |
| 0346 | LEAR | 15 0839 ^a | 0845 ^a | 0922 | S12 W82 | 4173 | 05 | 9.2 | 43 | 18 | X 2.3 | | 210 | | ACEFHJK |
| | LEAR | 15 0839 | 0845 | 0909 | S11 W81 | 4173 | 05 | 9.3 | 300 | 2B | X 2.3 | 2 | C | | F |
| | ISTA | 15 0840E | | 0850 | S13 W75 | 4173 | 05 | 9.7 | 100 | 1B | | | | EJ | |
| | ATHN | 15 0840 | 0845 | 0938 | S10 W78 | 4173 | 05 | 9.5 | 58 | 2B | | 3 | V | 0845 | 302 |
| | KANZ | 15 0841 | | 0946 | S11 W85 | 4173 | 05 | 9.0 | 65 | 1N | | | | ACK | |
| | PEKG | 15 0845E | 0850 | 0856 | S10 W80 | 4173 | 05 | 9.3 | 110 | SB | X 2.3 | P | 0850 | 126 | E |
| | CATA | 15 0845 | 0900 | 0945 | S12 W80 | 4173 | 05 | 9.3 | 50 | 2 | | C | 0900 | 281 | |
| | KHAR | 15 0850E | 0851 | 0945D | S10 W83 | 4173 | 05 | 9.1 | 550 | 1N | | P | 0855 | 130 | H |
| | LEAR | 15 0852 | 0900 | 0902 | S16 W91 | 4173 | 05 | 8.5 | 10 | SF | 3 | C | | | |
| | ISTA | 15 0911 | | 0940 | S13 W90 | 4173 | 05 | 8.6 | 29 | 1B | | | | EJ | |
| 0347 | KANZ | 15 0935 | 0939 | 0955 | N10 E42 | 4182 | 05 | 18.5 | 20 | SF | 3 | | | | |
| 0348 | HOLL | 15 1553 | 15571 | 1606 | S12 W80 | 4173 | 05 | 9.6 | 13 | SN C | 1.8 | | 48 | | F |
| | HOLL | 15 1553 | 1557 | 1604 | S11 W81 | 4173 | 05 | 9.6 | 11 | SN C | 1.8 | 3 | C | 48 | F |
| 0349 | HOLL | 15 1608 | 1612 | 1622 | S12 W80 | 4173 | 05 | 9.6 | 14 | 1N C | 3.3 | 3 | C | 108 | F |
| 0350 | HOLL | 15 1743 | 1753 | 1805 | S12 W80 | 4173 | 05 | 9.7 | 22 | SF C | 2.0 | 3 | C | 19 | |
| 0351 | PALE | 15 1933 | 1933 | 1947 | S11 W40 | 4172 | 05 | 12.8 | 14 | SF | | 3 | C | 26 | |
| 0352 | HOLL | 15 2224 | 2225 | 2242 | S10 W82 | 4173 | 05 | 9.8 | 18 | SF C | 2.0 | 3 | C | 30 | |
| 0353 | CULG | 15 22531 | 22551 | 2304 | S10 W18 | 4176 | 05 | 14.6 | 11 | SN C | 1.9 | | 64 | .8 | F |
| | HOLL | 15 2253 | 2255 | 2303 | S11 W18 | 4176 | 05 | 14.6 | 10 | SF | | C | 2255 | 80 | .8 |
| | HOLL | 15 2254 | 2256 | 2304 | S09 W17 | 4176 | 05 | 14.7 | 10 | SN C | 1.9 | 3 | C | 48 | F |
| 0354 | PEKG | 15 2350 | 2355 | 2401 | S09 W17 | 4176 | 05 | 14.7 | 11 | SF | | P | 2355 | .4 | E |
| 0355 | PEKG | 16 0020* | 0056* | 0124 | S11 W90 | 4173 | 05 | 9.2 | 64 | SF | | | 109 | | ADH |
| | PEKG | 16 0020 | 0110 | 0130 | S06 W90 | 4173 | 05 | 9.3 | 70 | SN | | C | 0110 | 84 | A |
| | VORO | 16 0054 | 0056 | 0110 | S14 W90 | 4173 | 05 | 9.2 | 16 | SF | | C | 0056 | 134 | DH |
| | LEAR | 16 0111 | 0122 | 0132 | S12 W90 | 4173 | 05 | 9.3 | 21 | SF | | 3 | | | |
| 0356 | WEND | 16 08023 | 08032 | 0811 | S30 W40 | 4171 | 05 | 13.2 | 9 | SF | | | 42 | .7 | |
| | LEAR | 16 0802 | 0805 | 0811 | S30 W40 | 4171 | 05 | 13.2 | 9 | SF | | C | 0805 | .6 | |
| | CATA | 16 0803 | 0803 | 0812 | S30 W39 | 4171 | 05 | 13.3 | 9 | SF | 3 | C | | 33 | |
| | LEAR | 16 0805 | 0805 | 0810 | S31 W40 | 4171 | 05 | 13.2 | 5 | S | | C | 0805 | .8 | |
| 0357 | KHAR | 16 0822 | 0823 | 0842 | S10 W48 | 4172 | 05 | 12.7 | 20 | SF | | | 44 | .9 | E |
| | KHAR | 16 0818E | | 0842D | S11 W47 | 4172 | 05 | 12.8 | 240 | SF | | C | 0832 | .9 | |
| | LEAR | 16 0822 | 0823 | 0842 | S10 W48 | 4172 | 05 | 12.7 | 20 | SF | 3 | C | 29 | | |
| 0358 | KHAR | 16 0931E | | 0941D | S11 W47 | 4172 | 05 | 12.9 | 100 | SF | | P | | | E |
| 0359 | KHAR | 16 0944E | | 0957D | S34 W42 | 4171 | 05 | 13.0 | 130 | SF | | P | 0947 | .5 | |
| 0360 | KHAR | 16 0957E | | 1200D | S23 E64 | 4179 | 05 | 21.4 | 1230 | SF | | P | | | D |
| 0361 | KHAR | 16 1141E | 1144 | 1151D | S30 W42 | 4171 | 05 | 13.2 | 100 | SF | | P | 1144 | .8 | E |
| 0362 | KANZ | 16 1405 | 1405 | 1415 | S10 W90 | 4173 | 05 | 9.8 | 10 | SN M | 1.3 | | | | |
| | HOLL | 16 1405E | 1405U | 1421 | S09 W90 | 4173 | 05 | 9.8 | 16D | SB M | 1.3 | 3 | C | | |

H - ALPHA SOLAR FLARES

75
May 83

MAY 1983

| Grp # | Sta | Start Day | Max Day | End Day | NOAA/USAF | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | | |
|-------|------|-----------|---------|---------|-----------|-----|--------|-----------|-----|------|-----------|------------------|------|------|------|-------------------------|-------------------|
| | | | | | Lat | CMD | Region | | | | | Opt | Xray | See | Type | (10 ⁻⁶ Disk) | Apparent (Sq Deg) |
| 0363 | HOLL | 16 1536 | 1539 | 1617 | S32 | W53 | 4171 | 05 12.4 | 41 | SN C | 2.1 | 3 | C | | 69 | | |
| 0364 | | 16 1629 | 1633* | 1833 | S29 | W54 | 4171 | 05 12.4 | 124 | SN C | 5.7 | | | | 108 | | FKU |
| | HOLL | 16 1629 | 1633 | 1833 | S29 | W54 | 4171 | 05 12.4 | 124 | SN C | 5.7 | 3 | C | | 123 | | UFK |
| | HOLL | 16 1629 | 1719 | 1833 | S29 | W54 | 4171 | 05 12.4 | 124 | SF | | 3 | C | | 92 | | K |
| 0365 | HOLL | 16 1708 | 1710 | 1717 | S10 | W27 | 4176 | 05 14.7 | 9 | SF | | 3 | C | | 37 | | |
| 0366 | HOLL | 16 2154 | 2156 | 2215 | S07 | W31 | 4176 | 05 14.6 | 21 | SF | | 3 | C | | 36 | | F |
| 0367 | HOLL | 16 2156 | 2158 | 2214 | S28 | W48 | 4171 | 05 13.2 | 18 | SF | | 3 | C | | 44 | | |
| 0368 | | 16 22461 | 22501 | 2302 | S26 | E50 | 4172 | 05 20.8 | 16 | 1B C | 1.3 | | | | 189 | 2.4 | E |
| | HOLL | 16 2246 | 2251 | 2304 | S27 | E50 | 4179 | 05 20.8 | 18 | 1B C | 1.3 | 3 | C | | 228 | | E |
| | CULG | 16 2247 | 2250 | 2301 | S24 | E51 | 4179 | 05 20.9 | 14 | 1N | | | | 2250 | 150 | 2.4 | |
| 0369 | | 17 05203 | 05235 | 0540 | S10 | W34 | 4176 | 05 14.7 | 20 | SF C | 1.0 | | | | 36 | .4 | |
| | LEAR | 17 0520 | 0523 | 0545 | S09 | W35 | 4176 | 05 14.6 | 25 | SF C | 1.0 | 3 | C | | 33 | | |
| | CULG | 17 0523 | 0528 | 0536 | S10 | W33 | 4176 | 05 14.7 | 13 | SF | | | | 0528 | 40 | .4 | |
| 0370 | LEAR | 17 0536 | 0547 | 0549 | S10 | W57 | 4172 | 05 12.9 | 13 | SF | | 3 | C | | 42 | | |
| 0371 | | 17 1214 | 1235 | 1245 | S11 | W64 | 4172 | 05 12.7 | 31 | SF | | | | | 38 | | |
| | KHAR | 17 1201E | | 12050 | S10 | W66 | 4172 | 05 12.5 | 40 | SF | | | | | | | |
| | RAMY | 17 1214 | 1235 | 1245 | S12 | W61 | 4172 | 05 12.9 | 31 | SF | | 3 | C | | 38 | | |
| 0372 | | 17 1623 | 1627 | 1632 | N16 | E82 | 4183 | 05 23.9 | 9 | SF | | | | | 20 | | |
| | HOLL | 17 1623 | 1627 | 1632 | N15 | E86 | 4183 | 05 24.2 | 9 | SF | | 3 | C | | 13 | | |
| | RAMY | 17 1623 | 1627 | 1633 | N18 | E77 | 4183 | 05 23.5 | 10 | SF | | 3 | C | | 26 | | |
| 0373 | | 17 1636 | 16371 | 1644 | S24 | E44 | 4188A | 05 21.1 | 8 | SN | | | | | 84 | | |
| | HOLL | 17 1636 | 1637 | 1644 | S25 | E44 | 4188A | 05 21.1 | 8 | SN | | 3 | C | | 76 | | |
| | RAMY | 17 1636 | 1638 | 1644 | S23 | E43 | 4188A | 05 21.0 | 8 | SN | | 3 | C | | 92 | | |
| 0374 | | 17 1729 | 17311 | 1741 | N16 | E82 | 4183A | 05 23.9 | 12 | SN | | | | | 42 | | |
| | HOLL | 17 1729 | 1731 | 1742 | N15 | E85 | 4183A | 05 24.2 | 13 | SN | | 3 | C | | 40 | | |
| | RAMY | 17 1729 | 1732 | 1740 | N16 | E79 | 4183A | 05 23.7 | 11 | SN | | 3 | C | | 45 | | |
| 0375 | PALE | 17 1817 | 1820 | 1822 | S13 | W65 | 4172 | 05 12.8 | 5 | SF | | 3 | C | | 19 | | |
| 0376 | HOLL | 17 1903 | 1907 | 1915 | N16 | E82 | 4183A | 05 24.0 | 12 | SF | | 3 | C | | 20 | | F |
| 0377 | HOLL | 17 2115 | 2124 | 2128 | N15 | E76 | 4183 | 05 23.6 | 13 | SF | | 3 | C | | 36 | | F |
| 0378 | | 18 02062 | 02083 | 0218 | S28 | W61 | 4171 | 05 13.3 | 12 | SF | | | | | 33 | .8 | F |
| | CULG | 18 0206 | 0208 | 0218 | S30 | W59 | 4171 | 05 13.4 | 12 | SF | | | | 0208 | 40 | .8 | F |
| | LEAR | 18 0208 | 0211 | 0217 | S28 | W62 | 4171 | 05 13.2 | 9 | SF | | 3 | C | | 28 | | F |
| | YUNN | 18 0211E | 0211U | 0220 | S26 | W62 | 4171 | 05 13.3 | 90 | SN | | | | 0211 | 31 | .7 | |
| 0379 | PEKG | 18 0300 | 0307 | 0320D | N16 | E78 | 4183A | 05 24.0 | 20D | SN | | | | 0307 | 147 | | AF |
| 0380 | | 18 0405 | 0420* | 0525 | N16 | E76 | 4183A | 05 23.9 | 80 | SN | | | | | 84 | | EK |
| | PEKG | 18 0405 | 0420 | 0525 | N16 | E76 | 4183A | 05 23.9 | 80 | SN | | | | 0420 | 84 | | EK |
| | PEKG | 18 0405 | 0459 | 0525 | N16 | E76 | 4183A | 05 23.9 | 80 | SN | | | | 0459 | 84 | | E |
| 0381 | PEKG | 18 0453 | 0459 | 0507 | S11 | W48 | 4176 | 05 14.6 | 14 | SF | | | | 0459 | 63 | 1.0 | E |
| 0382 | | 18 05371 | 0544 | 0550 | N16 | E70 | 4183 | 05 23.5 | 13 | IN C | 2.2 | | | | 97 | | E |
| | PEKG | 18 0537 | 0544 | 0550 | N15 | E72 | 4183 | 05 23.7 | 13 | SN C | 2.2 | | | 0544 | 84 | | E |
| | CULG | 18 0538 | 0544 | 0551 | N18 | E67 | 4183 | 05 23.3 | 13 | IN | | | | 0544 | 110 | | |
| 0383 | | 18 0732* | 0732* | 0809 | N18 | E72 | 4183A | 05 23.8 | 37 | SF | | | | | 50 | | |
| | LEAR | 18 0732 | 0732 | 0738 | N17 | E70 | 4183A | 05 23.6 | 6 | SF | | 3 | C | | 44 | | |
| | KANZ | 18 0733 | 0754 | 0812 | N19 | E75 | 4183A | 05 24.0 | 39 | SN | | 3 | C | | | | |
| | CATA | 18 0745 | 0750 | 0800 | N17 | E73 | 4183A | 05 23.9 | 15 | S | | | | 0750 | 56 | | |
| | PEKG | 18 0753 | 0758 | 0810 | N17 | E72 | 4183A | 05 23.8 | 17 | SN | | | | 0758 | 67 | | |
| | LEAR | 18 0754 | 0756 | 0806 | N18 | E70 | 4183A | 05 23.6 | 12 | SF | | 3 | C | | 30 | | |
| | PEKG | 18 0805 | 0822 | 0850 | N17 | E74 | 4183A | 05 24.0 | 45 | SF | | | | 0822 | 55 | | |

76
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/ USAF CMD | | | | Dur (Min) | Imp Opt | Obs | Time (UT) | Area Measurement | | | | |
|----------|------|--------------|-------------|-------------|----------------------|--------|-----|-------|--------------|------------|------|--------------|------------------|-------------------------------------|------------------|---------|-------|
| | | | | | Lat | Region | No | Day | | | | | Time | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | |
| 0384 | HTPR | 18 | 08332 | 03352 | 0850 | S26 | E26 | 4179 | 05 | 20.4 | 17 | SF | | 20 | .2 | EG | |
| | | | 0833 | 0637 | 0855 | S26 | E26 | 4179 | 05 | 20.4 | 22 | SF | | 20 | .2 | E | |
| | KANZ | 18 | 0835 | 0835 | 0845 | S27 | E26 | 4179 | 05 | 20.4 | 10 | SF | 3 | | | G | |
| 0385 | | 18 | 0835* | 09146 | 0931 | N18 | E68 | 4183 | 05 | 23.5 | 56 | IN | | 110 | | HKL | |
| | KANZ | 18 | 0835 | 0920 | 11580 | N19 | E68 | 4183 | 05 | 23.5 | 2030 | 2N | 1 | | | KH | |
| | MONT | 18 | 0902 | 0914 | 0931 | N16 | E67 | 4183 | 05 | 23.4 | 29 | SN | | 110 | | L | |
| 0386 | HTPR | 18 | 0923 | 0929 | 0943 | S05 | W27 | 4177 | 05 | 16.4 | 20 | SF | | 40 | .4 | | |
| 0387 | HTPR | 18 | 1023 | 1051 | 1058 | N18 | E69 | 4183 | 05 | 23.7 | 35 | SN | | 40 | .9 | | |
| 0388 | KMAR | 18 | 1039E | 1041 | 10530 | N34 | E74 | | 05 | 24.3 | 14D | SF | | | | D | |
| 0389 | RAMY | 18 | 1059 | 1126 | 11270 | N15 | E63 | 4183 | 05 | 23.2 | 28D | IN | 3 | C | 160 | | |
| 0390 | ATHN | 18 | 1153E | 1153 | 1214 | N17 | E71 | 4183A | 05 | 23.9 | 21D | IN | 2 | V | 1153 | 111 | 3.4 |
| 0391 | HTPR | 18 | 1219 | 1239 | 1252 | N18 | E68 | 4183 | 05 | 23.7 | 33 | SN | | C | 1239 | 40 | .9 |
| 0392 | | 18 | 1304* | 1321* | 1401 | N18 | E68 | 4183 | 05 | 23.7 | 57 | IN | C 1.4 | | 134 | 1.3 | BEFKL |
| | HOLL | 18 | 1304 | 1321 | 1422 | N17 | E68 | 4183 | 05 | 23.7 | 78 | IN | | 3 | C | 223 | K |
| | HOLL | 18 | 1304 | 1355 | 1422 | N17 | E68 | 4183 | 05 | 23.7 | 78 | 1B | C 1.4 | 3 | C | 151 | K |
| | HTPR | 18 | 1305 | | 13090 | N18 | E68 | 4183 | 05 | 23.7 | 40 | SF | | | 1309 | 20 | .4 |
| | MONT | 18 | 1311 | 1322 | 1332 | N19 | E70 | 4183 | 05 | 23.9 | 21 | 1B | | | 1322 | 250 | L |
| | RAMY | 18 | 1312 | 1321 | 1333 | N19 | E69 | 4183 | 05 | 23.8 | 21 | SN | C 5.5 | 3 | C | 120 | F |
| | KANZ | 18 | 1320E | | 13200 | N19 | E70 | 4183 | 05 | 23.9 | 21D | SB | | | | | |
| | HTPR | 18 | 1326E | | 13290 | N18 | E68 | 4183 | 05 | 23.7 | 30 | IN | | | 1326 | 100 | BE |
| | RAMY | 18 | 1353 | 1355 | 1418 | N19 | E65 | 4183 | 05 | 23.6 | 25 | SN | C 2.8 | 3 | C | 77 | |
| 0393 | HOLL | 18 | 1311 | 1316 | 1333 | S27 | E47 | 4181 | 05 | 22.2 | 22 | SF | | 3 | C | 27 | |
| 0394 | | 18 | 1427* | 1428* | 1519 | N17 | E68 | 4183 | 05 | 23.8 | 52 | SN | C 2.6 | | 78 | | K |
| | HOLL | 18 | 1427 | 1428 | 1435 | N17 | E70 | 4183 | 05 | 23.9 | 8 | SF | | 3 | C | 33 | |
| | HOLL | 18 | 1437 | 1448 | 1457 | N17 | E69 | 4183 | 05 | 23.8 | 20 | SB | C 2.6 | 3 | C | 86 | |
| | RAMY | 18 | 1441 | 1448 | 1536 | N18 | E66 | 4183 | 05 | 23.6 | 55 | SB | C 2.6 | 3 | C | 110 | K |
| | RAMY | 18 | 1441 | 1532 | 1536 | N18 | E66 | 4183 | 05 | 23.6 | 55 | SN | C 2.3 | 3 | C | 47 | |
| | HOLL | 18 | 1524 | 1533 | 1550 | N16 | E69 | 4183 | 05 | 23.9 | 26 | SF | C 2.3 | 3 | C | 108 | |
| 0395 | | 18 | 1618* | 1622* | 1722 | N16 | E65 | 4183 | 05 | 23.6 | 64 | SN | C 1.7 | | 72 | | EFK |
| | RAMY | 18 | 1618 | 1622 | 1659 | N17 | E64 | 4183 | 05 | 23.5 | 41 | SF | | 3 | C | 44 | K |
| | RAMY | 18 | 1618 | 1652 | 1659 | N17 | E64 | 4183 | 05 | 23.5 | 41 | SN | C 1.7 | 3 | C | 100 | K |
| | HOLL | 18 | 1621 | 1653 | 1659 | N17 | E69 | 4183 | 05 | 23.9 | 38 | SN | C 1.7 | 3 | C | 88 | |
| | PALE | 18 | 1700 | 1719 | 17300 | N19 | E66 | 4183 | 05 | 23.7 | 30D | SB | C 2.9 | 3 | C | 88 | |
| | RAMY | 18 | 1707 | 1718 | 1736 | N16 | E65 | 4183 | 05 | 23.6 | 29 | SN | C 2.9 | 3 | C | 84 | F |
| | HOLL | 18 | 1710 | 1719 | 1743 | N14 | E67 | 4183 | 05 | 23.8 | 33 | SB | C 2.9 | 3 | C | 76 | E |
| | RAMY | 18 | 1758 | 1759 | 1753 | N13 | E59 | 4183 | 05 | 23.2 | 15 | SF | | 3 | C | 23 | |
| 0396 | RAMY | 18 | 1801 | 1804 | 1816 | N17 | E65 | 4183 | 05 | 23.7 | 15 | SF | | 3 | C | 26 | |
| 0397 | | 18 | 1809 | 1810 | 1824 | S25 | E44 | 4181 | 05 | 22.2 | 15 | SN | | | 47 | | F |
| | HOLL | 18 | 1809 | 1810 | 1820 | S26 | E45 | 4181 | 05 | 22.2 | 11 | SN | | 3 | C | 43 | |
| | RAMY | 18 | 1809 | 1810 | 1828 | S24 | E44 | 4181 | 05 | 22.1 | 19 | SN | | 3 | C | 51 | F |
| 0398 | | 18 | 1826* | 1829* | 1846 | N16 | E65 | 4183 | 05 | 23.7 | 22 | SN | C 3.0 | | 71 | | FK |
| | RAMY | 18 | 1826 | 1829 | 19350 | N16 | E65 | 4183 | 05 | 23.7 | 69D | SN | | 3 | C | 72 | K |
| | RAMY | 18 | 1826 | 1851 | 19350 | N16 | E65 | 4183 | 05 | 23.7 | 69D | SN | C 3.0 | 3 | C | 124 | K |
| | HOLL | 18 | 1827 | 1829 | 1836 | N14 | E65 | 4183 | 05 | 23.7 | 9 | SN | | 3 | C | 38 | |
| | HOLL | 18 | 1845 | 1854 | 1859 | N17 | E66 | 4183 | 05 | 23.8 | 14 | SN | C 3.0 | 3 | C | 49 | F |
| 0399 | HOLL | 18 | 1942 | 1945 | 1951 | N16 | E67 | 4183 | 05 | 23.9 | 9 | SN | | 3 | C | 33 | F |
| 0400 | HOLL | 18 | 2248 | 2248 | 2258 | S25 | E25 | 4179 | 05 | 20.9 | 10 | SN | | 3 | C | 26 | |
| 0401 | LEAR | 19 | 0029 | 0116 | 0140 | N17 | E64 | 4183 | 05 | 23.9 | 71 | SF | | 3 | C | 54 | |
| 0402 | LEAR | 19 | 0153 | 0155 | 0249 | N15 | E55 | 4183 | 05 | 23.2 | 56 | SF | | 3 | C | 81 | F |

H - ALPHA SOLAR FLARES

77
May 83

MAY 1983

| Grp # | Sta | Start Day | Max (UT) | End (UT) | NOAA/USAF | | | Dur (Min) | Imp | Obs | Area Measurement | | | Remarks | | | |
|-------|------|-----------|----------|----------|-----------|-----------------|--------|-----------|-----|------|------------------|----------|------|-----------|----------------------------------|---------------|-----|
| | | | | | Lat | CMD | Region | Mo | Day | Opt | X-ray | See | Type | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | |
| 0403 | YUNN | 19 | 0251E | 0251U | 0251D | S09 | W59 | 4176 | 05 | 14.7 | 560 | SN | P | 0251 | 31 | .6 | |
| 0404 | ABST | 19 | 0457 | 0501 | 0509 | S08 | W63 | 4176 | 05 | 14.5 | 12 | SF | C | 0501 | 87 | | D |
| 0405 | | 19 | 05441 | 05462 | 0552 | S24 | E22 | 4188A | 05 | 20.9 | 8 | SF | | | 60 | 1.1 | DH |
| | ABST | 19 | 0544 | 0546 | 0552 | S23 | E23 | 4188A | 05 | 21.0 | 8 | SF | C | 0546 | 96 | 1.1 | D |
| | LEAR | 19 | 0545 | 0548 | 0553 | S25 | E21 | 4188A | 05 | 20.9 | 8 | SF | C | 0546 | 25 | | H |
| 0406 | HTPR | 19 | 0555E | | 0645 | S25 | E37 | 4181 | 05 | 22.1 | 500 | SF | C | 0634 | 20 | .3 | E |
| 0407 | | 19 | 07541 | 07554 | 0810 | S08 | W64 | 4176 | 05 | 14.5 | 16 | 1F C 1.3 | | | 96 | 4.0 | |
| | LEAR | 19 | 0754 | 0759 | 0811 | S07 | W64 | 4176 | 05 | 14.5 | 17 | SF C 1.3 | 3 | C | 24 | | |
| | CATA | 19 | 0755 | 0755 | 0810 | S09 | W64 | 4176 | 05 | 14.5 | 15 | 1 | C | 0755 | 169 | 4.0 | |
| 0408 | KHAR | 19 | 0821E | 0822 | 0826D | S22 | W61 | 4184 | 05 | 14.6 | 50 | SF | V | 0822 | | | H |
| 0409 | KHAR | 19 | 0840E | 0841 | 0854D | N02 | E90 | | 05 | 26.1 | 140 | SF | P | 0841 | | | D |
| | | 19 | 0932 | | 0935 | No Flare Patrol | | | | | | | | | | | |
| 0410 | HTPR | 19 | 0936E | | 0945 | N18 | E54 | 4183 | 05 | 23.5 | 90 | SF | C | 0940 | 30 | .5 | EH |
| 0411 | HTPR | 19 | 1002 | 1016 | 1019 | N16 | E53 | 4183 | 05 | 23.4 | 17 | SF | C | 1016 | 30 | .5 | E |
| 0412 | | 19 | 1014 | 1017 | 1033 | S26 | E34 | 4181 | 05 | 22.1 | 19 | SB | | | 70 | .9 | E |
| | HTPR | 19 | 1014 | 1017 | 1033 | S25 | E34 | 4181 | 05 | 22.1 | 19 | SB | C | 1017 | 40 | .5 | E |
| | KHAR | 19 | 1020E | | 1028D | S26 | E35 | 4181 | 05 | 22.1 | 80 | SN | P | 1025 | 100 | 1.3 | |
| 0413 | | 19 | 10556 | 1109* | 1136 | N17 | E56 | 4183 | 05 | 23.7 | 41 | SN C 1.8 | | | 108 | .6 | EK |
| | RAMY | 19 | 1055 | 1109 | 1136 | N17 | E57 | 4183 | 05 | 23.8 | 41 | IN C 1.8 | 3 | C | 150 | | Y |
| | RAMY | 19 | 1055 | 1112 | 1136 | N17 | E57 | 4183 | 05 | 23.8 | 41 | SN C 1.8 | 3 | C | 133 | | K |
| | HTPR | 19 | 1101 | 1130 | 1135 | N16 | E53 | 4183 | 05 | 23.5 | 34 | SN | C | 1130 | 40 | .6 | E |
| 0414 | KHAR | 19 | 1125E | 1127 | 1138D | N27 | W49 | | 05 | 15.6 | 130 | SF | V | 1127 | | | H |
| 0415 | RAMY | 19 | 1144 | 1147 | 1241 | N17 | E57 | 4183 | 05 | 23.8 | 57 | SN | 3 | C | 79 | | |
| 0416 | RAMY | 19 | 1247 | 1259 | 1302 | N16 | E53 | 4183 | 05 | 23.5 | 15 | SF | 3 | C | 85 | | |
| 0417 | RAMY | 19 | 1307 | 1318 | 1337 | N16 | E59 | 4183 | 05 | 24.0 | 30 | SN | 3 | C | 97 | | |
| 0418 | | 19 | 15573 | 15591 | 1606 | S25 | E32 | 4181 | 05 | 22.1 | 9 | SF | | | 38 | .3 | |
| | HTPR | 19 | 1557 | 1559 | 1606 | S25 | E32 | 4181 | 05 | 22.1 | 9 | SF | C | 1559 | 30 | .3 | |
| | HOLL | 19 | 1559 | 1600 | 1607 | S26 | E32 | 4181 | 05 | 22.1 | 8 | SN | 3 | C | 45 | | |
| | KANZ | 19 | 1600 | 1600 | 1606 | S25 | E33 | 4181 | 05 | 22.2 | 6 | SF | 3 | C | | | |
| 0419 | | 19 | 16285 | 16332 | 1638 | N18 | E54 | 4183 | 05 | 23.8 | 10 | SN | | | 56 | .8 | E |
| | HTPR | 19 | 1628 | 1633 | 1637 | N18 | E51 | 4183 | 05 | 23.6 | 9 | SN | C | 1633 | 50 | .8 | E |
| | HOLL | 19 | 1633 | 1635 | 1639 | N17 | E56 | 4183 | 05 | 23.9 | 6 | SN | 3 | C | 61 | | |
| 0420 | RAMY | 19 | 1849 | 1905 | 1926D | N15 | E56 | 4183 | 05 | 24.0 | 370 | SN C 1.3 | 3 | C | 28 | | F |
| 0421 | | 19 | 2054* | 2101 | 2121 | N17 | E54 | 4183 | 05 | 24.0 | 27 | SF C 2.2 | | | 28 | | |
| | HOLL | 19 | 2054 | 2101 | 2107 | N17 | E55 | 4183 | 05 | 24.0 | 13 | SF | 3 | C | 38 | | |
| | HOLL | 19 | 2110 | 2110 | 2135 | N17 | E54 | 4183 | 05 | 24.0 | 25 | SF C 2.2 | 2 | C | 18 | | |
| 0422 | HOLL | 19 | 2139 | 2141 | 2153 | N17 | E52 | 4183 | 05 | 23.8 | 14 | SN C 2.4 | 2 | C | 134 | | F |
| 0423 | | 19 | 2317 | 2323* | | N15 | E54 | 4183 | 05 | 24.0 | | SN | | | 29 | | FK |
| | HOLL | 19 | 2317 | 2323 | | N15 | E54 | 4183 | 05 | 24.0 | | SF | 3 | C | 29 | | K |
| | HOLL | 19 | 2317 | 2341 | | N15 | E54 | 4183 | 05 | 24.0 | | SN | 3 | C | 29 | | FK |
| 0424 | | 20 | 0024* | 0037* | 0107 | N18 | E51 | 4183 | 05 | 23.9 | 43 | SB C 4.5 | | | 97 | 1.4 | DEF |
| | YUNN | 20 | 0024 | 0.37 | 0044 | N18 | E50 | 4183 | 05 | 23.8 | 20 | SN | C | | 38 | .7 | D |
| | MANI | 20 | 0024 | 0041 | 0051D | N17 | E51 | 4183 | 05 | 23.9 | 270 | SP | 1 | V | 47 | .8 | |
| | HOLL | 20 | 0024 | 0047 | 0119 | N17 | E51 | 4183 | 05 | 23.9 | 55 | SB C 4.5 | 2 | C | 146 | | F |
| | PURP | 20 | 0027 | 0103 | 0106D | N17 | E53 | 4183 | 05 | 24.0 | 35 | SB | P | 0103 | 55 | 1.0 | E |
| | MANI | 20 | 0029 | 0043 | 0051D | N18 | E49 | 4183 | 05 | 23.7 | 220 | SB | 1 | V | 85 | 1.4 | |
| | LEAR | 20 | 0029 | 0047 | 0118 | N19 | E51 | 4183 | 05 | 23.9 | 49 | SB C 4.5 | 3 | C | 124 | | FE |
| | YUNN | 20 | 0035 | 0047 | 0108 | N18 | E52 | 4183 | 05 | 24.0 | 33 | IN | C | | 185 | 3.3 | |

78
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | OMP Region | Dur Mo Day | Imp (Min) | Obs | Time (UT) | Area Measurement | | | | | | |
|----------|------|----------------------|-------------|-------------|-------|----------------------|---------------|---------------|--------------|------|--------------|------------------|-------------|------|----------------------------|----------------------|-----------------|-----|
| | | | | | | | | | | | | Time Out | Xray See | Type | (10 ⁻⁶ Disk) | Apparent (Sq Deg) | Corr Remarks | |
| 0425 | YUNN | 20 | 0110 | 0114 | 0124 | S20 | W65 | 4184 | 05 15.1 | 14 | IN | | P | | 123 | | | |
| 0426 | LEAR | 20 | 0140 | 01402 | 0155 | N18 | E54 | 4183 | 05 24.2 | 15 | SB | | | | 50 | 1.4 | D | |
| | | 20 | 0140 | 0140 | 0155 | N19 | E54 | 4183 | 05 24.2 | 15 | SN | 3 | C | | 23 | | | |
| | PURP | 20 | 0140 | 0142 | 0211D | N17 | E55 | 4183 | 05 24.2 | 31D | SB | | C | 0142 | 76 | 1.4 | D | |
| 0427 | ABST | 20 | 0404 | 0405 | 0407 | N07 | E43 | 4190A | 05 23.4 | 3 | SF | | C | 0405 | 87 | 1.3 | DJV | |
| 0428 | | 20 | 0407* | 0411* | 0432 | N16 | E48 | 4183 | 05 23.8 | 25 | SF | | | | 86 | 1.8 | DEJV | |
| | ABST | 20 | 0407 | 0411 | 0420 | N16 | E52 | 4183 | 05 24.1 | 13 | 1F | | C | 0411 | 131 | 2.3 | EJ | |
| | ABST | 20 | 0427 | 0428 | 0430 | N15 | E45 | 4183 | 05 23.6 | 3 | SF | | C | 0428 | 87 | 1.3 | DJV | |
| | LEAR | 20 | 0432 | 0437 | 0447 | N17 | E46 | 4183 | 05 23.7 | 15 | SF | 3 | C | | 39 | | | |
| 0429 | ABST | 20 | 0501 | 0503 | 0512 | N15 | E54 | 4183 | 05 24.3 | 11 | 1F | | P | 0503 | 131 | 2.4 | DJ | |
| 0430 | | 20 | 05139 | 0515* | 0541 | S20 | E79 | 4185 | 05 26.2 | 28 | IN | C | 4.7 | | 134 | | | |
| | TACH | 20 | 0513 | 0515 | 0535 | S20 | E80 | 4185 | 05 26.3 | 22 | 2N | | C | 0515 | 221 | | AGH | |
| | LEAR | 20 | 0522 | 0527 | 0544 | S20 | E78 | 4185 | 05 26.2 | 22 | SN | C | 4.7 | 3 | C | | A | |
| | PURP | 20 | 0528E | 0528 | 0545 | S21 | E80 | 4185 | 05 26.4 | 170 | 1B | | C | 0528 | 48 | | HG | |
| 0431 | | 20 | 0525 | 05253 | 0542 | N18 | E48 | 4183 | 05 23.9 | 17 | SN | | | | 38 | .8 | F | |
| | LEAR | 20 | 0525 | 0525 | 0530 | N18 | E48 | 4183 | 05 23.9 | 5 | SN | 3 | C | 0528 | 48 | .8 | F | |
| | PURP | 20 | 0528E | 0528 | 0554 | N18 | E49 | 4183 | 05 23.9 | 26D | SN | | C | 0528 | 48 | .8 | | |
| 0432 | | 20 | 0620* | 0636* | 07C5 | N16 | E46 | 4183 | 05 23.7 | 45 | SF | | | | 78 | 1.3 | DEJV | |
| | ATHN | 20 | 0620 | 0636 | 0730 | N14 | E52 | 4183 | 05 24.2 | 70 | 1N | 3 | V | 0636 | 127 | 2.2 | | |
| | ABST | 20 | 0647 | 0648 | 0652 | N17 | E43 | 4183 | 05 23.5 | 5 | SF | | C | 0648 | 87 | 1.3 | DJV | |
| | HTPR | 20 | 0649 | 0651 | 0654 | N16 | E43 | 4183 | 05 23.5 | 5 | SF | | C | 0651 | 20 | .3 | E | |
| 0433 | | 20 | 0749* | 08046 | 0817 | N18 | E44 | 4183 | 05 23.7 | 28 | IN | | | | 126 | 2.4 | E | |
| | KANZ | 20 | 0749 | 0809 | 0814 | N19 | E44 | 4183 | 05 23.7 | 25 | IN | 2 | | | | | | |
| | CATA | 20 | 0800 | 0810 | 0825 | N17 | E45 | 4183 | 05 23.7 | 25 | 1 | | C | 0810 | 169 | 2.6 | | |
| | MONT | 20 | 0802E | 0804 | 0811 | N18 | E44 | 4183 | 05 23.7 | 9D | SF | | C | 0804 | 50 | | E | |
| | KHAR | 20 | 0805E | | 0821D | N20 | E43 | 4183 | 05 23.6 | 16D | 1N | | P | 0805 | 160 | 2.3 | E | |
| 0434 | KHAR | 20 | 0925E | | 0935D | N09 | W33 | 4174 | 05 17.9 | 10D | SF | | P | | | | E | |
| 0435 | KANZ | 20 | 0929 | 0929 | 0939 | N18 | E41 | 4183 | 05 23.5 | 10 | SF | 1 | | | | | | |
| 0436 | KHAR | 20 | 0958E | 1005 | 1018D | N16 | E48 | 4183 | 05 24.0 | 20D | SN | | P | 1005 | 80 | 1.2 | D | |
| 0437 | KHAR | 20 | 1018E | | | N10 | W31 | 4174 | 05 18.1 | D | SF | | P | | | | D | |
| 0438 | KANZ | 20 | 1038E | | 1038D | N18 | E41 | 4183 | 05 23.6 | 822D | SN | 2 | | | | | | |
| 0439 | KANZ | 20 | 1119 | 1129 | 1134 | S21 | E80 | 4187 | 05 26.6 | 15 | SN | 1 | | | | | | |
| 0440 | KHAR | 20 | 1138E | | 1140D | N17 | E47 | 4183 | 05 24.0 | 2D | SF | | P | | | | | |
| 0441 | HOLL | 20 | 1412 | 1412 | 1422 | N10 | W34 | 4174 | 05 18.0 | 10 | SF | 3 | C | | 18 | | | |
| 0442 | HOLL | 20 | 1437 | 1444 | 1505 | N16 | E46 | 4183 | 05 24.1 | 28 | SF | C | 1.5 | 3 | C | | 50 | |
| 0443 | | 20 | 1504 | 1509 | 1528 | S20 | E76 | 4185 | 05 26.4 | 24 | IN | C | 4.1 | | | 143 | | ABF |
| | HOLL | 20 | 1504 | 1509 | 1528 | S22 | E79 | 4185 | 05 26.7 | 24 | 1F | C | 4.1 | 3 | C | | 143 | F |
| | KANZ | 20 | 1518E | | 1518D | S19 | E73 | 4185 | 05 26.2 | 24D | SN | 3 | | | | | | AB |
| 0444 | HOLL | 20 | 1704E | 1704U | 1740 | N14 | E48 | 4183 | 05 24.3 | 360 | SB | C | 3.7 | 3 | C | | 100 | E |
| 0445 | LEAR | 21 | 0117 | 0119 | 0123 | N18 | E38 | 4183 | 05 23.9 | 6 | SF | 3 | C | | 23 | | | F |
| 0446 | LEAR | 21 | 0140 | 0143 | 0159 | N17 | E39 | 4183 | 05 24.0 | 19 | SF | 3 | C | | 18 | | | |
| 0447 | LEAR | 21 | 0335 | 0340 | 0351 | N16 | E40 | 4183 | 05 24.2 | 16 | SF | 3 | C | | 39 | | | |
| 0448 | ABST | 21 | 0431 | 0441 | 0452 | N13 | W36 | 4182 | 05 18.5 | 21 | SF | | P | 0441 | 79 | 1.1 | DJ | |
| 0449 | ABST | 21 | 0448 | 0452 | 0513 | N19 | E30 | 4183 | 05 23.5 | 25 | IN | | P | 0452 | 288 | 3.7 | FJ | |

H - ALPHA SOLAR FLARES

79
May 83

MAY 1983

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | NOAA/ USAF Lat | | | | | | Dur (Min) | Imp | Obs | Area Measurement | | | Remarks | | |
|----------|------|----------------------|-------------|-------------|----------------------|-----------------|-----|------|-----|-------|--------------|----------|-----|------------------|-------------------------------------|------------------|---------|--|--|
| | | | | | CMD | Region | Mo | Day | Opt | X-ray | | | | Time (UT) | Apparent (10 ⁻⁵ Disk) | Corr (Sq Deg) | | | |
| 0450 | ABST | 21 | 0513 | 0515 | 0527 | N20 | E37 | 4183 | 05 | 24.0 | 14 | 1N | C | 0515 | 175 | 2.5 | EJ | | |
| 0451 | YUNN | 21 | 0745 | 0750 | 0805 | N18 | E33 | 4183 | 05 | 23.8 | 20 | SN | C | | 46 | .6 | E | | |
| 0452 | YUNN | 21 | 0753 | 0754 | 0801 | S19 | E63 | 4185 | 05 | 26.1 | 8 | SN | C | | 23 | .5 | | | |
| 0453 | RAMY | 21 | 1110 | 1113 | 1136 | N19 | E32 | 4183 | 05 | 23.9 | 26 | SN C 1.9 | 3 | C | | 71 | | | |
| 0454 | | 21 | 13401 | 13406 | 1414 | N17 | E32 | 4183 | 05 | 24.0 | 34 | SN C 2.2 | | | 80 | 1.4 | EF | | |
| | RAMY | 21 | 1340 | 1340 | 1401 | N19 | E31 | 4183 | 05 | 23.9 | 21 | SN C 2.2 | 3 | C | | 43 | F | | |
| | HOLL | 21 | 1341 | 1345 | 1412 | N17 | E33 | 4183 | 05 | 24.1 | 31 | SN C 2.2 | 3 | C | | 50 | F | | |
| | ATHN | 21 | 1346E | 1346 | 1352D | N17 | E34 | 4183 | 05 | 24.1 | 60 | SN | 1 | V | 1346 | 127 | 1.7 | | |
| | HTPR | 21 | 1355E | | 1430 | N16 | E31 | 4183 | 05 | 23.9 | 350 | SF | C | 1357 | 100 | 1.2 | E | | |
| 0455 | HOLL | 21 | 1659 | 1714 | 1731 | S19 | E71 | 4187 | 05 | 27.1 | 32 | SF | 3 | C | | 23 | F | | |
| 0456 | HOLL | 21 | 1727 | 1729 | 1743 | N18 | E23 | 4183 | 05 | 25.9 | 16 | SN C 1.1 | 3 | C | | 42 | F | | |
| | | 21 | 1816 | | 1819 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 | 1829 | | 1840 | No Flare Patrol | | | | | | | | | | | | | |
| 0457 | HOLL | 21 | 1947 | 1947 | 2002 | N15 | E31 | 4183 | 05 | 24.2 | 15 | SF C 1.2 | 3 | C | | 47 | F | | |
| 0458 | HOLL | 21 | 1957 | 1958 | 2007 | N11 | W52 | 4174 | 05 | 17.9 | 10 | SF C 1.3 | 3 | C | | 85 | F | | |
| 0459 | HOLL | 21 | 2032 | 2035 | 2051 | S18 | E5E | 4185 | 05 | 26.1 | 19 | SN C 1.1 | 3 | C | | 96 | | | |
| 0460 | HOLL | 21 | 2128 | 2129 | 2139 | N19 | E25 | 4183 | 05 | 23.8 | 11 | SN C 1.7 | 3 | C | | 99 | F | | |
| 0461 | HOLL | 21 | 2144 | 2153 | 2206 | N14 | E22 | 4183 | 05 | 23.5 | 22 | SF | 3 | C | | 41 | F | | |
| 0462 | | 22 | 0334 | 0338* | 0427 | N15 | E24 | 4183 | 05 | 24.0 | 53 | SN C 3.7 | | | 204 | 2.9 | EFK | | |
| | MITK | 22 | 0334 | 0338 | 0409D | N16 | E25 | 4183 | 05 | 24.0 | 350 | SN | C | 0338 | | | E | | |
| | PALE | 22 | 0336E | 0338 | 0411D | N15 | E25 | 4183 | 05 | 24.0 | 350 | SN C 3.7 | 3 | C | | 162 | FE | | |
| | LEAR | 22 | 0336E | 0340 | 0416 | N16 | E24 | 4183 | 05 | 24.0 | 400 | SN C 3.7 | 2 | C | | 160 | F | | |
| | YUNN | 22 | 0337E | 0337U | 0352 | N15 | E26 | 4183 | 05 | 24.1 | 150 | IB | P | 0337 | 231 | 2.8 | F | | |
| | ABST | 22 | 0357E | 0405 | 0514 | N15 | E22 | 4183 | 05 | 23.8 | 770 | IN | P | 0405 | 262 | 3.0 | FK | | |
| 0463 | YUNN | 22 | 0517 | 0519 | 0535 | N15 | E16 | 4183 | 05 | 23.4 | 18 | SN | C | | 15 | .2 | 0 | | |
| 0464 | YUNN | 22 | 0603 | 0606 | 0622 | S20 | E63 | 4187 | 05 | 27.1 | 19 | SN | C | | 46 | 1.1 | | | |
| 0465 | | 22 | 0840E | 0913 | 1040D | N18 | E13 | 4183 | 05 | 23.3 | 120D | SN | | | 105 | 1.2 | EH | | |
| | KHAR | 22 | 0840E | | 0852D | N18 | E13 | 4183 | 05 | 23.3 | 12D | SF | P | 0840 | 30 | .3 | H | | |
| | KHAR | 22 | 0903E | 0913 | 1040D | N19 | E13 | 4183 | 05 | 23.4 | 97D | SN | P | 0913 | 180 | 2.0 | EH | | |
| 0466 | KHAR | 22 | 0956E | | 1009D | S30 | W16 | 4179 | 05 | 21.1 | 13D | SF | P | | | | | | |
| 0467 | | 22 | 1220 | 1224 | 1252 | N16 | E22 | 4183 | 05 | 24.2 | 32 | SB C 3.6 | | | 122 | | F | | |
| | HOLL | 22 | 1219E | 1221U | 1254 | N16 | E22 | 4183 | 05 | 24 | 350 | SB C 3.6 | 2 | C | | 89 | F | | |
| | RAMY | 22 | 1220 | 1224 | 1250 | N16 | E22 | 4183 | 05 | 24.2 | 30 | SB C 3.6 | 3 | C | | 155 | | | |
| 0468 | HOLL | 22 | 1356 | 1356 | 1410 | N19 | E17 | 4183 | 05 | 23.9 | 14 | SN | 3 | C | | 43 | F | | |
| 0469 | RAMY | 22 | 1437 | 1444 | 1540 | S19 | E50 | 4185 | 05 | 26.4 | 63 | SF | 3 | C | | 25 | | | |
| 0470 | | 22 | 1452* | 1502* | 1600 | N16 | E17 | 4183 | 05 | 23.9 | 68 | SF C 2.2 | | | 48 | | FK | | |
| | RAMY | 22 | 1452 | 1502 | 1520 | N17 | E14 | 4183 | 05 | 23.7 | 28 | SF C 2.2 | 3 | C | | 61 | | | |
| | HOLL | 22 | 1453 | 1534 | 1621 | N16 | E19 | 4183 | 05 | 24.1 | 88 | SF | 3 | C | | 45 | K | | |
| | HOLL | 22 | 1453 | 1544 | 1621 | N16 | E19 | 4183 | 05 | 24.1 | 88 | SF | 3 | C | | 58 | FK | | |
| | RAMY | 22 | 1542 | 1545 | 1556 | N16 | E17 | 4183 | 05 | 23.9 | 14 | SF | 3 | C | | 27 | | | |
| 0471 | HOLL | 22 | 1508 | 1509 | 1519 | S29 | W18 | 4179 | 05 | 21.2 | 11 | SF | 3 | C | | 20 | | | |
| 0472 | HOLL | 22 | 1610 | 1622 | 1629 | S19 | E57 | 4187 | 05 | 27.0 | 19 | SN | 3 | C | | 26 | F | | |
| 0473 | HOLL | 22 | 1709 | 1711 | 17.8 | S20 | E56 | 4187 | 05 | 27.0 | 5 | SN | 3 | C | | 16 | | | |

80
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/USAF CMD Region | OMP No | Dur (Min) | Imp Opt | Xray See | Obs Type | Area Measurement | | | | | | |
|----------|------|-----|---------------|-------------|-------------|-----|-------------------------|-----------|--------------|------------|-------------|-------------|------------------|--------------|--------------|-------------------------------------|------------------|---------|--|
| | | | | | | | | | | | | | Day | Dur (Min) | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | Remarks | |
| 0474 | HOLL | 22 | 1732 | 1732 | 1742 | S19 | E55 | 4187 | 05 27.0 | 10 | SN | 3 | C | | 22 | | | | |
| 0475 | HOLL | 22 | 1746 | 1747 | 1754 | N17 | E18 | 4183 | 05 24.1 | 8 | SN | 3 | C | | 58 | | F | | |
| 0476 | | 22 | 1805 | 1806* | 1909 | N17 | E18 | 4183 | 05 24.1 | 63 | SN | | | | 72 | | K | | |
| | HOLL | 22 | 1806 | 1806 | 1909 | N17 | E18 | 4183 | 05 24.1 | 63 | SF | 3 | C | | 23 | | K | | |
| | HOLL | 22 | 1806 | 1823 | 1909 | N17 | E18 | 4183 | 05 24.1 | 63 | SN | 3 | C | | 122 | | K | | |
| 0477 | | 22 | 1814 | 1815 | 1911 | S20 | E55 | 4187 | 05 27.0 | 57 | SN | | | | 18 | | K | | |
| | HOLL | 22 | 1814 | 1815 | 1911 | S20 | E55 | 4187 | 05 27. | 57 | SN | 3 | C | | 20 | | K | | |
| | HOLL | 22 | 1814 | 1822 | 1911 | S20 | E55 | 4187 | 05 27.0 | 57 | SN | 3 | C | | 17 | | K | | |
| 0478 | HOLL | 22 | 2004 | 2005 | 2015 | S30 | W21 | 4179 | 05 21.2 | 11 | SF | 3 | C | | 26 | | | | |
| 0479 | HOLL | 22 | 2033 | 2050 | 2107D | N17 | E18 | 4183 | 05 24.2 | 340 | SF C 2.4 | 3 | C | | 33 | | | | |
| 0480 | HOLL | 22 | 2204 | 2210 | 2229 | S19 | E53 | 4187 | 05 27.0 | 25 | SN | 3 | C | | 16 | | | | |
| 0481 | | 22 | 23191 | 23202 | 2344 | N17 | E16 | 4183 | 05 24.2 | 25 | SN C 1.5 | | | | 107 | 2.0 | EJ | | |
| | VORO | 22 | 2319 | 2320 | 2349 | N17 | E15 | 4183 | 05 24.1 | 30 | SN | | | | 179 | 2.0 | EJ | | |
| | HOLL | 22 | 2320 | 2322 | 2338 | N17 | E16 | 4183 | 05 24.2 | 18 | SN C 1.5 | 3 | C | 2320 | 35 | | F | | |
| 0482 | YUNN | 23 | 0056 | 0100 | 0120 | N10 | E90 | 4191 | 05 29.8 | 24 | | | C | | | | A | | |
| 0483 | VORO | 23 | 0115 | 0116 | 0120 | S18 | E48 | 4187 | 05 26.7 | 5 | SF | | C | 0116 | 90 | 1.4 | D | | |
| 0484 | YUNN | 23 | 0133 | 0140 | 0152 | N11 | E90 | 4191 | 05 29.8 | 19 | | | C | | | | A | | |
| 0485 | | 23 | 01377 | 0142* | 0205 | S16 | E52 | 4187 | 05 27.0 | 28 | SN | | | | 60 | 1.0 | DFK | | |
| | YUNN | 23 | 0137 | 0142 | 0213 | S14 | E54 | 4187 | 05 27.1 | 36 | SB | | C | | 46 | .8 | F | | |
| | YUNN | 23 | 0137 | 0152 | 0213 | S16 | E54 | 4187 | 05 27.2 | 36 | SB | | C | | 62 | 1.1 | K | | |
| | VORO | 23 | 0144 | 0148 | 0148 | S18 | E48 | 4187 | 05 26.7 | 4 | SF | | C | 0144 | 72 | 1.1 | D | | |
| 0486 | YUNN | 23 | 0202 | 0204 | 0220 | S24 | W12 | 4181 | 05 22.1 | 18 | SN | | C | | 92 | 1.0 | | | |
| 0487 | ABST | 23 | 0424E | 0447 | 04560 | S19 | E50 | 4187 | 05 27.0 | 320 | SF | | P | 0447 | 96 | 1.6 | DJ | | |
| 0488 | LEAR | 23 | 0534E | 0547U | 0726 | S20 | E48 | 4187 | 05 26.9 | 1120 | SF | 3 | C | | 78 | | F | | |
| 0489 | | 23 | 0534E | 0546U | 0604 | N18 | E11 | 4183 | 05 24.1 | 300 | SN | | | | 44 | .2 | F | | |
| | LEAR | 23 | 0534E | 0546U | 0615 | N16 | E13 | 4183 | 05 24.2 | 410 | SF | 3 | C | 0546 | 74 | | F | | |
| | YUNN | 23 | 0546E | 0546U | 0554 | N20 | E09 | 4183 | 05 23.9 | 80 | SN | | P | 0546 | 15 | .2 | | | |
| 0490 | | 23 | 0736 | 0745 | 0820 | S19 | E48 | 4187 | 05 27.0 | 44 | SN C 1.0 | | | | 98 | 2.0 | EFHL | | |
| | YUNN | 23 | 0736E | 0736U | 0741D | S19 | E48 | 4187 | 05 27.0 | 50 | IN | | P | 0736 | 154 | 2.5 | | | |
| | LEAR | 23 | 0736 | 0745 | 0820 | S19 | E48 | 4187 | 05 27.0 | 44 | SN C 1.0 | 3 | C | | 49 | | FH | | |
| | KHAR | 23 | 0810E | | 0849D | S19 | E47 | 4187 | 05 26.9 | 390 | SF | | P | 0815 | 90 | 1.5 | EL | | |
| 0491 | | 23 | 0840 | 08411 | 0900D | N16 | E09 | 4183 | 05 24.0 | 200 | SN C 2.4 | | | | 105 | 1.2 | EFH | | |
| | YUNN | 23 | 0840 | 0841U | 0841D | N17 | E11 | 4183 | 05 24.2 | 10 | SN | | P | 0841 | 154 | 1.7 | | | |
| | LEAR | 23 | 0840 | 0841 | 0842D | N15 | E06 | 4183 | 05 23.8 | 20 | SN C 2.4 | 3 | C | | 90 | | F | | |
| | KHAR | 23 | 0840E | 0842 | 0900D | N16 | E09 | 4183 | 05 24.0 | 200 | SN | | P | 0847 | 70 | .8 | EH | | |
| 0492 | KHAR | 23 | 0922E | | 0940D | N08 | W75 | 4174 | 05 17.8 | 180 | SF | | V | 0922 | | | | | |
| 0493 | | 23 | 1051E | 1107 | 1129 | N16 | E08 | 4183 | 05 24.0 | 380 | SF | | | | 24 | | E | | |
| | KHAR | 23 | 1051E | 1107 | 1121D | N17 | E08 | 4183 | 05 24.0 | 300 | SF | 3 | C | | 24 | | | | |
| | RAMY | 23 | 1110E | 1110U | 1129 | N16 | E09 | 4183 | 05 24.1 | 190 | SF | | | | | | | | |
| 0494 | RAMY | 23 | 1144 | 1145 | 1158 | S08 | W47 | 4188 | 05 20.0 | 14 | SF | 3 | C | | 35 | | | | |
| 0495 | | 23 | 1147 | 1151* | 1253 | S18 | E46 | 4187 | 05 27.0 | 66 | SN | | | | 109 | 1.9 | K | | |
| | RAMY | 23 | 1109E | 1151 | 1313 | S19 | E46 | 4187 | 05 27.0 | 1240 | 1F | 3 | C | | 161 | | K | | |
| | RAMY | 23 | 1109E | 1251 | 1313 | S19 | E46 | 4187 | 05 27.0 | 1240 | SN | 3 | C | | 38 | | K | | |
| | ATHN | 23 | 1147 | 1151 | 1214 | S17 | E45 | 4187 | 05 26.9 | 27 | SN | 3 | Y | 1151 | 127 | 1.9 | | | |
| 0496 | RAMY | 23 | 1301 | 1302 | 1310 | N07 | W74 | 4174 | 05 16.0 | 9 | SN C 1.5 | 3 | C | | 61 | | | | |

H - ALPHA SOLAR FLARES

81
May 83

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | |
|----------|------|-----|---------------|-------------|-------------|-----------------|-----|-------|-----|--------|--------------|-----|-----|--------------|------------------|------|-------------------------|----------|-------|
| | | | | | | | | USAF | OMP | Region | Mo | Day | Opt | X-ray | See | Type | (10 ⁻⁶ Disk) | Apparent | Corr |
| | | | | | | | | | | | | | | | | | (Sq Deg) | Remarks | |
| 0497 | RAMY | 23 | 1323 | 1324 | 1331 | N19 | E04 | 4183 | 05 | 2.9 | 8 | SNC | 1.2 | 3 | C | | 26 | | |
| 0498 | | 23 | 13391 | 13391 | 1348 | N19 | E02 | 4183 | 05 | 23.7 | 9 | SN | C | 1.2 | | | 30 | F | |
| | HOLL | 23 | 1339 | 1339 | 1347 | N19 | E03 | 4183 | 05 | 23.8 | 8 | SN | C | 1.2 | 3 | C | 22 | F | |
| | RAMY | 23 | 1340 | 1340 | 1349 | N19 | E02 | 4183 | 05 | 23.7 | 9 | SN | C | 1.2 | 3 | C | 39 | | |
| 0499 | | 23 | 14152 | 14171 | 1428 | N08 | W76 | 4174 | 05 | 17.9 | 13 | SN | | | | | 56 | | |
| | HOLL | 23 | 1415 | 1418 | 1431 | N09 | W76 | 4174 | 05 | 17.9 | 16 | SN | | | 3 | C | 70 | | |
| | RAMY | 23 | 1417 | 1417 | 1425 | N07 | W76 | 4174 | 05 | 17.9 | 8 | SN | | | 3 | C | 42 | | |
| 0500 | | 23 | 15102 | 15123 | 1528 | N08 | W75 | 4174 | 05 | 18.0 | 18 | SF | | | | | 19 | | |
| | HOLL | 23 | 1510 | 1512 | 1528 | N09 | W76 | 4174 | 05 | 17.9 | 18 | SF | | | 3 | C | 20 | | |
| | RAMY | 23 | 1512 | 1515 | 1527 | N07 | W74 | 4174 | 05 | 18.1 | 15 | SF | | | 3 | C | 18 | | |
| 0501 | HOLL | 23 | 1535 | 1545 | 1604 | N09 | W77 | 4174 | 05 | 17.9 | 29 | SF | | | 3 | C | 26 | | |
| | | 23 | 1634 | | 1653 | No Flare Patrol | | | | | | | | | | | | | |
| 0502 | HOLL | 23 | 1710 | 1719 | 1747 | N18 | E03 | 4183 | 05 | 23.9 | 37 | SF | C | 1.2 | 3 | C | 85 | F | |
| 0503 | HOLL | 23 | 2053 | 2100 | 2159 | S19 | E41 | 4187 | 05 | 27.0 | 66 | SF | | | 3 | C | 39 | F | |
| 0504 | | 24 | 00111* | 0013* | 0051 | N19 | W00 | 4183 | 05 | 24.0 | 40 | SN | C | 1.4 | | | 32 | | |
| | HOLL | 24 | 00111 | 0013 | 0051 | N19 | E00 | 4183 | 05 | 24.0 | 40 | SN | C | 1.4 | 3 | C | 36 | | |
| | LEAR | 24 | 0039 | 0045 | 0051 | N19 | W01 | 4183 | 05 | 23.9 | 12 | SF | | | 3 | C | 29 | | |
| 0505 | | 24 | 01241 | 01251 | 0144 | N18 | W03 | 4183 | 05 | 23.4 | 20 | SF | C | 1.0 | | | 27 | .2 | |
| | CULG | 24 | 0124 | 0125 | 0127D | N18 | W03 | 4183 | 05 | 23.4 | 30 | SF | | | | | 20 | .2 | |
| | LEAR | 24 | 0125 | 0126 | 0144 | N19 | W03 | 4183 | 05 | 2* | 19 | SF | C | 1.0 | 3 | C | 34 | | |
| 0506 | CULG | 24 | 0435 | 0437U | 0437D | S17 | E25 | 4185 | 05 | 26.1 | 2D | SF | | | P | 0437 | 60 | .7 | |
| 0507 | HOLL | 24 | 1516 | 1521 | 1537 | S16 | E26 | 4187 | 05 | 26.6 | 21 | SF | C | 1.0 | 3 | C | 42 | | |
| 0508 | HOLL | 24 | 1520 | 1520 | 1529 | N18 | W06 | 4183 | 05 | 24.2 | 9 | SF | | | 3 | C | 26 | F | |
| | | 24 | 1720 | | 1750 | No Flare Patrol | | | | | | | | | | | | | |
| | | 24 | 1844 | | 1850 | No Flare Patrol | | | | | | | | | | | | | |
| 0509 | HOLL | 24 | 1928 | 1932 | 1941 | S19 | E29 | 4187 | 05 | 27.0 | 13 | SF | | | 3 | C | 25 | | |
| | | 24 | 1959 | | 2108 | No Flare Patrol | | | | | | | | | | | | | |
| 0510 | VORO | 24 | 2342 | 2342 | 2348 | S18 | E12 | 4185 | 05 | 25.9 | 6 | SN | | | C | 2342 | 161 | 1.7 | D1 |
| 0511 | | 25 | 00415 | 00474 | 0102 | S17 | E27 | 4187 | 05 | 27.1 | 21 | SF | C | 1.2 | | | 99 | 1.1 | DEFIJ |
| | VORO | 25 | 0041 | 0047 | 0104 | S19 | E28 | 4187 | 05 | 27.2 | 23 | 1F | | | C | 0047 | 206 | 2.5 | EIJ |
| | YUNN | 25 | 0044 | 0048 | 0100 | S17 | E27 | 4187 | 05 | 27.1 | 16 | SN | | | C | | 92 | 1.1 | D |
| | CULG | 25 | 0046E | 0046U | 0054 | S14 | E27 | 4187 | 05 | 27.1 | 8D | SF | | | P | 0046 | 40 | .4 | |
| | LEAR | 25 | 0046 | 0048 | 0105 | S16 | E27 | 4187 | 05 | 27.1 | 19 | 3F | C | 1.2 | 3 | C | 126 | | F |
| | PURP | 25 | 0051E | 0051 | 0108 | S20 | E27 | 4187 | 05 | 27.1 | 17D | SF | | | C | 0051 | 32 | .3 | |
| 0512 | | 25 | 01251 | 0126 | 0138 | N14 | W21 | 4183 | 05 | 23.5 | 13 | SN | | | | | 28 | .5 | D |
| | YUNN | 25 | 0125 | 0126 | 0136D | N14 | W20 | 4183 | 05 | 23.5 | 11D | SN | | | P | | 15 | .2 | D |
| | CULG | 25 | 0126 | 0127U | 0138 | N14 | W22 | 4183 | 05 | 23.4 | 12 | SF | | | C | 0127 | 40 | .3 | |
| 0513 | LEAR | 25 | 0145 | 0147 | 0206 | N15 | W13 | 4183 | 05 | 24.1 | 21 | SF | | | 3 | C | 50 | | F |
| 0514 | | 25 | 03563 | 0400 | 0425 | N18 | W18 | 4183 | 05 | 23.8 | 29 | 1N | C | 3.6 | | | 332 | 4.8 | EFK |
| | LEAR | 25 | 0356 | 0400 | 0422 | N18 | W17 | 4183 | 05 | 23.9 | 26 | SN | C | 3.6 | 3 | C | 161 | | |
| | TACH | 25 | 0359 | 0400 | 0428 | N18 | W18 | 4183 | 05 | 23.8 | 29 | 2F | | | C | 0400 | 575 | 6.5 | |
| | ABST | 25 | 0400E | 0400 | 0425 | N18 | W20 | 4183 | 05 | 23.6 | 25D | 1N | | | P | 0400 | 261 | 3.0 | EK |
| 0515 | ABST | 25 | 0400E | 0400 | 0432 | S18 | E24 | 4187 | 05 | 27.0 | 32D | SN | | | P | 0400 | 174 | 2.0 | EK |
| 0516 | ABST | 25 | 0656 | 0703 | 0708D | N18 | W20 | 4183 | 05 | 23.8 | 12D | 1F | | | P | 0703 | 261 | 3.0 | E |
| 0517 | | 25 | 07011 | 07032 | 0708 | S19 | E20 | 4187 | 05 | 26.8 | 7 | SN | | | | | 62 | .7 | DV |
| | KAND | 25 | 0701 | 0705 | 0707 | S20 | E19 | 4187 | 05 | 26.7 | 6 | SF | | | C | | 35 | .4 | D |
| | ABST | 25 | 0702 | 0703 | 0708D | S18 | E21 | 4187 | 05 | 26.9 | 6D | SN | | | P | 0703 | 87 | 1.0 | DV |
| | ATHN | 25 | 0704E | 0704 | 0709 | S19 | E20 | 4187 | 05 | 26.8 | 5D | SN | 2 | V | P | 0704 | 64 | .7 | |

82
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA USAF CMD Region | OMP Mo Day | Dur (Min) | Imp Opt | Xray See | Obs Type | Area Measurement | | |
|-------|------|-------|------------|----------|----------------------|---------|----------------------|------------|-----------|---------|----------|----------|------------------|-----------------------|---------------|
| | | | | | | | | | | | | | Time (UT) | Apparent (10^-6 Disk) | Corr (Sq Deg) |
| 0518 | 25 | 0723E | 07242 | 0739 | S20 E20 4187 | 05 26.8 | 16D SN | | | | | | 52 | .6 | D |
| | ATHN | 25 | 0723E | 0724 | 0739 S19 E20 4187 | 05 26.8 | 16D SB | | | 2 | V | 0724 | 80 | .9 | |
| | PURP | 25 | 0726E | 0726 | 0726D S21 E20 4187 | 05 26.8 | 16D SF | | | | P | 0726 | 24 | .2 | D |
| 0519 | KAND | 25 | 0804 | 0806 | 0808 S20 E19 4187 | 05 26.8 | 4 SF | | | | C | | 21 | .2 | D |
| 0520 | | 25 | 0839 | 0841 | 0850 S20 E23 4187 | 05 27.1 | 11 SN | | | | | | 37 | .4 | DEHK |
| | KHAR | 25 | 0831E | 0841 | 0924D S18 E21 4187 | 05 26.9 | 53D SF | | | | P | 0841 | 50 | .6 | EHK |
| | PURP | 25 | 0839 | 0841 | 0850 S21 E25 4187 | 05 27.3 | 11 SB | | | | C | 0841 | 24 | .2 | D |
| 0521 | KHAR | 25 | 0911E | 0914 | 0937D N19 W20 4183 | 05 23.8 | 26D SF | | | | P | 0914 | 50 | .6 | E |
| 0522 | KHAR | 25 | 0928E | | 0944D S19 E11 4185 | 05 26.2 | 16D SF | | | | P | 0934 | 20 | .2 | E |
| 0523 | KHAR | 25 | 1114E | 1127 | 1137D S18 E20 4187 | 05 27.0 | 23D SN | | | | P | 1127 | 100 | 1.1 | E |
| 0524 | | 25 | 1158 | 11586 | 1211 N18 W21 4183 | 05 23.9 | 13 SN C 1.1 | | | | | | 32 | .4 | E |
| | KHAR | 25 | 1154E | 1158 | 1204D N18 W22 4183 | 05 23.8 | 10E SF | | | | P | 1158 | 30 | .4 | E |
| | RAMY | 25 | 1158 | 1204 | 1211 N17 W20 4183 | 05 24.0 | 13 SN C 1.1 | 3 | | | C | | 34 | | |
| 0525 | | 25 | 1405* | 1456* | 1641 S18 E20 4187 | 05 27.1 | 156 IN C 2.4 | | | | | | 177 | 1.2 | BEFK |
| | RAMY | 25 | 1405 | 1456 | 1637D S17 E19 4187 | 05 27.0 | 152D IN C 2.4 | 3 | | | C | | 302 | | |
| | HOLL | 25 | 1423 | 1456 | 1641 S18 E20 4187 | 05 27.1 | 138 IN C 2.4 | 3 | | | C | | 250 | | FK |
| | HOLL | 25 | 1423 | 1635 | 1641 S18 E20 4187 | 05 27.1 | 138 SN | 3 | | | C | | 36 | | K |
| | HTPR | 25 | 1510E | | 1519D S18 E20 4187 | 05 27.1 | 90 SN | | | | C | 1512 | 120 | 1.2 | BE |
| | | 25 | 1522 | | 1539 No Flare Patrol | | | | | | | | | | |
| 0526 | | 25 | 1633 | 1642* | 1726 N18 W22 4183 | 05 24.0 | 53 SF | | | | | | 66 | | |
| | HOLL | 25 | 1633 | 1642 | 1726 N18 W22 4183 | 05 24.0 | 53 SF | | | 3 | C | | 59 | | |
| | HOLL | 25 | 1633 | 1655 | 1726 N18 W22 4183 | 05 24.0 | 53 SF | | | 3 | C | | 74 | | |
| | | 25 | 1800 | | 1822 No Flare Patrol | | | | | | | | | | |
| | | 25 | 1840 | | 1850 No Flare Patrol | | | | | | | | | | |
| 0527 | HOLL | 25 | 2011E | 2013U | 2024 N19 W21 4183 | 05 24.2 | 130 SN C 1.1 | 3 | | | C | | 29 | | F |
| | | 25 | 2047 | | 2058 No Flare Patrol | | | | | | | | | | |
| 0528 | HOLL | 25 | 2059E | 2059U | 2109 N19 W22 4183 | 05 24.2 | 100 SF | | | 2 | C | | 20 | | F |
| | | 25 | 2114 | | 2118 No Flare Patrol | | | | | | | | | | |
| 0529 | HOLL | 25 | 2119E | 2119U | 2128 S17 E21 4187 | 05 27.5 | 90 SF | | | 2 | C | | 22 | | |
| 0530 | PALE | 25 | 2204E | 2222U | 2239D S19 E14 4187 | 05 27.0 | 35D SN C 1.9 | 3 | | | C | | 44 | | |
| 0531 | | 25 | 2346 | 2355 | 2430 N10 E50 4191 | 05 29.7 | 44 IN C 2.2 | | | | | | 144 | 1.9 | EF |
| | LEAR | 25 | 2346 | 2355 | 2430 N09 E52 4191 | 05 29.9 | 44 IF C 2.2 | 2 | | | C | | 164 | | F |
| | YUNN | 26 | 0010E | 0014U | 0030 N10 E48 4191 | 05 29.6 | 200 SN | | | | P | 0014 | 123 | 1.9 | E |
| 0532 | LEAR | 26 | 0024 | 0025 | 0040 N17 W26 4183 | 05 24.0 | 16 SF | | | 3 | C | | 68 | | F |
| 0533 | LEAR | 26 | 0117 | 0118 | 0123 N18 W30 4183 | 05 23.8 | 5 SF | | | 3 | C | | 58 | | |
| 0534 | ABST | 26 | 0446 | 0448 | 0455 S05 E06 4198 | 05 26.6 | 9 SF | | | | C | 0448 | 125 | 1.8 | D |
| 0535 | ABST | 26 | 0452 | 0457 | 0523D S19 E12 4187 | 05 27.1 | 310 SF | | | | P | 0457 | 96 | 1.1 | DJ |
| 0536 | | 26 | 0756 | 0757* | 0806 N18 W32 4183 | 05 23.9 | 10 SF | | | | | | 26 | .3 | DF |
| | LEAR | 26 | 0756 | 0757 | 0806 N18 W34 4183 | 05 23.7 | 10 SF | | | 3 | C | | 26 | | F |
| | KHAR | 26 | 0810E | 0823 | 0927D N17 W31 4183 | 05 24.0 | 770 SF | | | | P | 0823 | 25 | .3 | D |
| 0537 | KAND | 26 | 1210 | 1218 | 1236 N10 E40 4191 | 05 29.5 | 26 SF | | | | C | | 21 | .3 | E |
| 0538 | | 26 | 12471 | 1257 | 1322 N12 E40 4191 | 05 29.5 | 35 SF C 1.2 | | | | | | 70 | 1.1 | |
| | HOLL | 26 | 1247 | 1249U | 1318 N12 E40 4191 | 05 29.5 | 31 SF C 1.2 | 2 | | | C | | 60 | | |
| | ATHN | 26 | 1248 | 1257 | 1325 N12 E39 4191 | 05 29.5 | 37 SF | 3 | | | V | 1257 | 80 | 1.1 | |

H - ALPHA SOLAR FLARES

83
May 83

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | |
|----------|------|-----|---------------|-------------|-------------|-----|----------------------|-------|----|--------------|-----|----------|--------------|-------------------------|----------------------|---------|
| | | | | | | | Region | OMP | Mo | | | | | (10 ⁻⁶ Disk) | Apparent (Sq Deg) | Corr |
| | | | | | | | | | | | | | | | | Remarks |
| 0539 | HOLL | 26 | 1719 | 1720 | 1729 | S15 | E05 | 4187 | 05 | 27.1 | 10 | SF | 3 | C | 49 | |
| 0540 | | 26 | 1759 | 1800 | 1812 | S11 | W12 | 4193 | 05 | 25.8 | 13 | SN | | | 30 | |
| RAMY | | 26 | 1759 | 1800 | 1807 | S11 | W12 | 4193 | 05 | 25.8 | 8 | SF | 3 | C | 25 | F |
| HOLL | | 26 | 1759 | 1800 | 1817 | S11 | W11 | 4193 | 05 | 25.9 | 18 | SN | 3 | C | 34 | F |
| 0541 | HOLL | 26 | 2011 | 2030 | 2047 | S19 | E02 | 4187 | 05 | 27.0 | 36 | SF C 1.1 | 3 | C | 41 | F |
| 0542 | LEAR | 26 | 2346 | 2355 | 2411D | S11 | E35 | 4189A | 05 | 29.6 | 250 | 1F | 2 | C | 164 | F |
| 0543 | LEAR | 27 | 0055 | 0059 | 0112 | S10 | W16 | 4193 | 05 | 25.8 | 17 | SF | 3 | C | 28 | F |
| 0544 | LEAR | 27 | 0837 | 0838 | 0849 | S18 | W03 | 4187 | 05 | 27.1 | 12 | SF | 3 | C | 34 | |
| 0545 | ATHN | 27 | 0912 | 0919 | 0943 | S13 | E31 | 4189A | 05 | 29.7 | 31 | SN | 3 | V | 0919 | 127 1.6 |
| 0546 | HTPR | 27 | 0915 | 0922 | 0956 | N10 | E30 | 4191 | 05 | 29.6 | 41 | SF | C | 0922 | 30 .3 | E |
| 0547 | HTPR | 27 | 1038 | 1049 | 1054 | S18 | W04 | 4187 | 05 | 27.1 | 16 | SF | C | 1049 | 30 .3 | E |
| 0548 | HTPR | 27 | 1108 | 1110 | 1115 | S19 | W05 | 4187 | 05 | 27.1 | 7 | SF | C | 1110 | 20 .2 | |
| 0549 | | 27 | 1110 | 11178 | 1136 | S10 | E60 | 4196 | 06 | 1.0 | 26 | SF | | | 33 .7 | |
| HTPR | | 27 | 1110 | 1117 | 1136 | S10 | E59 | 4196 | 05 | 31.9 | 26 | SF | C | 1117 | 10 .2 | |
| CATA | | 27 | 1120E | 1125 | 1135D | S09 | E62 | 4196 | 06 | 1.1 | 150 | S | P | 1125 | 56 1.2 | |
| 0550 | | 27 | 1431 | 14321 | 1440 | S13 | W40 | 4186 | 05 | 24.6 | 9 | SF | | | 41 .8 | |
| HOLL | | 27 | 1431 | 1432 | 1439 | S12 | W41 | 4186 | 05 | 24.5 | 8 | SF | 3 | C | 22 | |
| HTPR | | 27 | 1431 | 1433 | 1442 | S14 | W40 | 4186 | 05 | 24.6 | 11 | SF | C | 1433 | 60 .8 | |
| 0551 | | 27 | 16464 | 1659* | 1831 | S10 | W25 | 4193 | 05 | 25.8 | 105 | SN | | | 145 1.5 | EFK |
| HTPR | | 27 | 1646 | | 1733D | S10 | W26 | 4193 | 05 | 25.7 | 470 | SN | C | 1700 | 140 1.5 | E |
| RAMY | | 27 | 1646 | 1748 | 1827 | S11 | W25 | 4193 | 05 | 25.8 | 101 | IN | 3 | C | 238 | F |
| HOLL | | 27 | 1650 | 1659 | 1833 | S09 | W25 | 4193 | 05 | 25.8 | 103 | SN | 3 | C | 75 | K |
| HOLL | | 27 | 1650 | 1747 | 1833 | S09 | W25 | 4193 | 05 | 25.8 | 103 | SN | 3 | C | 126 | FK |
| 0552 | HOLL | 27 | 1807 | 1908 | 1832 | S11 | E72 | 4196A | 06 | 2.2 | 25 | SF | 3 | C | 16 | F |
| 0553 | HOLL | 27 | 1854 | 1857 | 1914 | S10 | E57 | 4196 | 06 | 1.1 | 20 | SF | 3 | C | 53 | F |
| 0554 | HOLL | 27 | 2248 | 2248 | 2307 | N16 | W02 | 4189 | 05 | 27.8 | 19 | SF | 3 | C | 48 | F |
| 0555 | VORO | 27 | 2335 | 2336 | 2345 | S17 | W44 | 4186 | 05 | 24.6 | 9 | SN | C | 2336 | 108 1.5 | D |
| 0556 | CULG | 28 | 0412 | 0416U | 0418D | S09 | E66 | 4196A | 06 | 2.1 | 60 | SF | P | 0416 | 30 .5 | |
| 0557 | CULG | 28 | 0457 | 0458 | 0502 | S13 | W38 | 4192 | 05 | 25.3 | 5 | SN | C | 0458 | 20 .3 | |
| 0558 | HTPR | 28 | 0515 | 0518 | 0521 | S04 | W14 | 4195 | 05 | 27.2 | 6 | SF | C | 0518 | 30 .3 | |
| 0559 | | 28 | 0521 | 05231 | 0540 | S16 | W17 | 4187 | 05 | 26.9 | 19 | SF | | | 35 .4 | E |
| CULG | | 28 | 0521 | 0523 | 0530 | S16 | W16 | 4187 | 05 | 27.0 | 9 | SF | C | 0523 | 40 .4 | |
| HTPR | | 28 | 0521 | 0524 | 0550 | S16 | W18 | 4187 | 05 | 26.8 | 29 | SF | C | 0524 | 30 .3 | E |
| 0560 | HTPR | 28 | 0539 | 0542 | 0546 | S09 | W37 | 4193 | 05 | 25.4 | 7 | SF | C | 0542 | 60 .7 | E |
| 0561 | HTPR | 28 | 0557 | 0559 | 0604 | S15 | W16 | 4187 | 05 | 27.0 | 7 | SF | C | 0559 | 20 .2 | |
| 0562 | | 28 | 0713 | 0715 | 0722 | S11 | E63 | 4196A | 06 | 2.0 | 9 | SN | | | 31 .7 | D |
| HTPR | | 28 | 0713 | 0715 | 0723 | S11 | E60 | 4196A | 06 | 1.8 | 10 | SN | C | 0715 | 20 .4 | |
| YLMH | | 28 | 0714E | 0714U | 0716D | S12 | E65 | 4196A | 06 | 2.2 | 20 | SN | P | 0714 | 31 .7 | D |
| BUCA | | 28 | 0715E | | 0720 | S11 | E65 | 4196A | 06 | 2.2 | 50 | SN | C | 0715 | 43 1.0 | D |
| 0563 | CATA | 28 | 0845 | 0910 | 0920 | S12 | E64 | 4196A | 06 | 2.2 | 35 | S | C | 0910 | 56 1.3 | |
| 0564 | HTPR | 28 | 1239 | 1244 | 1250 | S19 | W20 | 4187 | 05 | 27.0 | 11 | SF | C | 1244 | 20 .2 | |

84
May 83

H - ALPHA SOLAR FLARES

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | | |
|-------|------|-----|------------|----------|----------|-----------------|-----|-----------|--------|-----------|-----|----------|-----------|------------------|------|-----|------|-------------------------|
| | | | | | | | | Region | Mo Day | | | | | Opt | Xray | See | Type | (10 ⁻⁶ Disk) |
| 0565 | HTPR | 28 | 1540 | 1542 | 1547 | S08 | W43 | 4193 | 05 | 25.4 | 7 | SF | C | 1542 | 20 | .3 | E | |
| 0566 | HTPR | 28 | 1549 | 1555 | 1625 | S13 | W63 | 4190B | 05 | 23.9 | 36 | SF | C | 1556 | 40 | .9 | E | |
| 0567 | HTPR | 28 | 1630 | 1632 | 1646 | S09 | W52 | 4186 | 05 | 24.8 | 16 | SN | C | 1632 | 40 | .6 | | |
| | | 28 | 1719 | | 2225 | No Flare Patrol | | | | | | | | | | | | |
| | | 28 | 2232 | | 2259 | No Flare Patrol | | | | | | | | | | | | |
| 0568 | | 29 | 0049* | 0118 | 0127 | S10 | E37 | 4196 | 05 | 31.8 | 38 | SN C 2.2 | | | 91 | .8 | | |
| | CULG | 29 | 0049 | 0049U | 0054D | S09 | E37 | 4196 | 05 | 31.8 | 50 | SF | P | 0049 | 30 | .3 | | |
| | CULG | 29 | 0101E | 0117U | 0121D | S09 | E38 | 4196 | 05 | 31.9 | 200 | SN | P | 0117 | 110 | 1.4 | | |
| | LEAR | 29 | 0116 | 0118 | 0127 | S11 | E37 | 4196 | 05 | 31.8 | 11 | SN C 2.2 | C | | 133 | | | |
| 0569 | CATA | 29 | 0920 | 0930 | 0935D | S07 | E90 | 4201 | 06 | 5.1 | 150 | 1 | P | 0930 | 68 | | | |
| 0570 | RAMY | 29 | 1115 | 1120 | 1130 | S18 | W40 | 4187 | 05 | 26.4 | 15 | SF | 3 | C | 28 | | | |
| 0571 | RAMY | 29 | 1136 | 1138 | 1144 | S11 | E47 | 4196A | 06 | 2.0 | 8 | SF | 3 | C | 36 | | | |
| 0572 | RAMY | 29 | 1323 | 1323 | 1330 | S10 | E77 | 4201 | 06 | 4.3 | 7 | SF | 3 | C | 25 | | | |
| 0573 | | 29 | 15122 | 15143 | 1533 | S06 | E90 | 4201 | 06 | 5.4 | 21 | SN | | | 27 | | | |
| | KANZ | 29 | 1512 | 1517 | 1533 | S06 | E90 | 4201 | 06 | 5.4 | 21 | SN | 3 | C | | | | |
| | RAMY | 29 | 1514 | 1514 | 1540D | S07 | E90 | 4201 | 06 | 5.4 | 260 | SF | 3 | C | 27 | | | |
| 0574 | | 29 | 15382 | 1541 | 1551 | S11 | E44 | 4196A | 06 | 2.0 | 13 | SF | | | 34 | F | | |
| | KANZ | 29 | 1538 | 1541 | 1550 | S11 | E44 | 4196A | 06 | 2.0 | 12 | SF | 3 | C | | | | |
| | HOLL | 29 | 1540 | 1541 | 1552 | S11 | E43 | 4196A | 06 | 1.9 | 12 | SF | 3 | C | 34 | F | | |
| 0575 | HOLL | 29 | 1607 | 1615 | 1625 | S09 | E40 | 4196 | 06 | 1.7 | 18 | SF | 3 | C | 62 | F | | |
| 0576 | | 29 | 18401 | 1843 | 1848 | S10 | E86 | 4201 | 06 | 5.2 | 8 | SF | | | 11 | | | |
| | HOLL | 29 | 1840 | 1843 | 1845 | S10 | E90 | 4201 | 06 | 5.5 | 5 | SF | 3 | C | 10 | | | |
| | RAMY | 29 | 1841 | 1843 | 1850 | S10 | E83 | 4201 | 06 | 5.0 | 9 | SF | 3 | C | 12 | | | |
| | | 29 | 2033 | | 2034 | No Flare Patrol | | | | | | | | | | | | |
| 0577 | LEAR | 30 | 0121 | 0121 | 0125 | S11 | E84 | 4201 | 06 | 5.4 | 4 | SF | 3 | C | | | | |
| 0578 | | 30 | 0255 | 0257 | 0300 | S09 | E82 | 4201 | 06 | 5.3 | 5 | SN C 1.2 | | | 30 | | | |
| | CULG | 30 | 0255 | 0257 | 0300 | S07 | E81 | 4201 | 06 | 5.2 | 5 | SN | P | 0257 | 30 | | | |
| | LEAR | 30 | 0255 | 0257 | 0301 | S11 | E84 | 4201 | 06 | 5.4 | 6 | SF C 1.2 | 3 | C | | | | |
| 0579 | LEAR | 30 | 0310 | 0312 | 0323 | S18 | W48 | 4187 | 05 | 26.5 | 13 | SF | 3 | C | 22 | | | |
| 0580 | | 30 | 0447 | 0437* | 0502 | S14 | W88 | | 05 | 23.5 | 15 | 1F | | | 87 | AD | | |
| | YUNN | 30 | 0424E | 0437 | 0451D | S12 | W90 | | 05 | 23.4 | 27D | | P | | | A | | |
| | ABST | 30 | 0447 | 0452 | 0502 | S15 | W85 | | 05 | 23.8 | 15 | 1F | C | 0452 | 87 | AD | | |
| 0581 | ABST | 30 | 0530 | 0532 | 0534 | S09 | E85 | 4201 | 06 | 5.6 | 4 | 1N | C | 0532 | 96 | AD | | |
| 0582 | ABST | 30 | 0552 | 0554 | 0620 | N17 | W34 | 4189 | 05 | 27.7 | 28 | SF | C | 0554 | 105 | 1.4 | DG | |
| 0583 | KANZ | 30 | 0736 | 0741 | 0746 | S10 | E80 | 4201 | 06 | 5.3 | 10 | SF | 3 | | | | | |
| 0584 | KANZ | 30 | 0751 | 0806 | 0811 | N12 | W90 | 4183 | 05 | 23.5 | 20 | SF | 3 | | | | | |
| 0585 | | 30 | 1044 | 1049* | 1143 | S09 | E77 | 4201 | 06 | 5.2 | 59 | SN C 1.2 | | | 38 | 1.6 | FK | |
| | KANZ | 30 | 1044 | 1049 | 1059 | S12 | E79 | 4201 | 06 | 5.4 | 15 | SN | 3 | | | | | |
| | RAMY | 30 | 1044 | 1049 | 1157 | S07 | E77 | 4201 | 06 | 5.2 | 73 | SN | 3 | C | 40 | K | | |
| | RAMY | 30 | 1044 | 1133 | 1157 | S07 | E77 | 4201 | 06 | 5.2 | 73 | SN C 1.2 | 3 | C | 27 | FK | | |
| | ATHN | 30 | 1141E | 1141 | 1158 | S10 | E74 | 4201 | 06 | 5.0 | 17D | SN | 2 | V | 1141 | 48 | 1.6 | |
| 0586 | | 30 | 1206 | 12094 | 1222 | S06 | E77 | 4201 | 06 | 5.3 | 16 | SF | | | 30 | | | |
| | KANZ | 30 | 1200E | 1209 | 1221 | S06 | E77 | 4201 | 06 | 5.3 | 21D | SF | 3 | C | | | | |
| | RAMY | 30 | 1206 | 1213 | 1224 | S06 | E77 | 4201 | 06 | 5.3 | 18 | SF | 3 | C | 30 | | | |

H - ALPHA SOLAR FLARES

85
May 83

MAY 1983

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF | | | Dur (Min) | Imp | Obs | Time (UT) | Area Measurement | | | Remarks |
|-------|------|-----|------------|----------|----------|-----------------|-----|-----------|----|------|-----------|-----|-----|-----------|-------------------------|-------------------|------|---------|
| | | | | | | | | Region | Mo | Day | | | | | (10 ⁻⁶ Disk) | Apparent (Sq Deg) | Corr | |
| 0587 | HOLL | 30 | 1448 | 1451 | 1513 | S12 | E70 | 4201 | 06 | 4.9 | 25 | SF | C | 1.8 | 3 | C | 35 | F |
| 0588 | | 30 | 1623 | 1630* | 1730D | S11 | E72 | 4201 | 06 | 5.1 | 67D | 1F | C | 5.0 | | | 99 | F |
| | HOLL | 30 | 1623 | 1630 | 1730D | S12 | E73 | 4201 | 06 | 5.2 | 67D | SF | C | 5.0 | 3 | C | 90 | F |
| | RAMY | 30 | 1624E | 1702 | 1706D | S10 | E70 | 4201 | 06 | 4.9 | 42D | 1F | | | 3 | C | 108 | F |
| | | 30 | 2123 | | 2128 | No Flare Patrol | | | | | | | | | | | | |
| 0589 | CULG | 30 | 2223 | 2224 | 2226 | S19 | W56 | 4187 | 05 | 26.6 | 3 | SF | | | C | 2224 | 70 | 1.3 |
| 0590 | LEAR | 31 | 0252 | 0257 | 0302 | S13 | E18 | 4196 | 06 | 1.5 | 10 | SF | | | 3 | C | 29 | F |
| 0591 | | 31 | 03172 | 0319* | 0338 | S11 | E69 | 4201 | 06 | 5.3 | 21 | SF | C | 3.8 | | | 38 | FK |
| | PALE | 31 | 0317 | 0331 | 0353D | S09 | E68 | 4201 | 06 | 5.2 | 36D | SF | C | 3.8 | 3 | C | 48 | |
| | LEAR | 31 | 0319 | 0319 | 0335 | S11 | E67 | 4201 | 06 | 5.2 | 16 | SF | | | 3 | C | 15 | FK |
| | LEAR | 31 | 0319 | 0330 | 0335 | S11 | E67 | 4201 | 06 | 5.2 | 16 | SF | C | 3.8 | 3 | C | 28 | K |
| | PURP | 31 | 0334E | 0334 | 0343 | S12 | E73 | 4201 | 06 | 5.6 | 90 | SN | | | C | 0334 | 63 | |
| 0592 | KANZ | 31 | 0705 | 0705 | 0710 | S08 | E55 | 4201 | 06 | 4.4 | 5 | SN | | | 3 | | | D |
| 0593 | | 31 | 07005 | 07103 | 0722 | S19 | W62 | 4187 | 05 | 26.6 | 22 | SF | C | 2.4 | | | 78 | |
| | LEAR | 31 | 0700 | 0713 | 0723 | S16 | W62 | 4187 | 05 | 26.6 | 23 | SF | C | 2.4 | 3 | C | 93 | |
| | KANZ | 31 | 0705 | 0710 | 0720 | S20 | W61 | 4187 | 05 | 26.6 | 15 | SF | | | 3 | | | |
| | PURP | 31 | 0713E | 0713 | 0713D | S22 | W64 | 4187 | 05 | 26.4 | 15D | SN | | | P | 0713 | 63 | |
| 0594 | KANZ | 31 | 0710 | 0715 | 0725 | S11 | E17 | 4196 | 06 | 1.6 | 15 | SF | | | 3 | | | |
| 0595 | KHAR | 31 | 0756E | 0757 | 0802D | S21 | W62 | 4187 | 05 | 26.6 | 60 | SF | | | V | 0800 | 40 | D |
| 0596 | | 31 | 0759 | 08093 | 0818 | S10 | E52 | 4201 | 06 | 4.2 | 19 | SF | | | | | | D |
| | KANZ | 31 | 0759 | 0809 | 0818 | S09 | E53 | 4201 | 06 | 4.3 | 19 | SF | | 2 | V | 0812 | | D |
| | KHAR | 31 | 0811E | 0812 | 0817D | S10 | E52 | 4201 | 06 | 4.2 | 60 | SF | | | | | | |
| 0597 | | 31 | 0916 | 0921 | 0936 | S10 | E52 | 4201 | 06 | 4.3 | 20 | SF | | | | | | D |
| | KANZ | 31 | 0916 | 0921 | 0936 | S09 | E53 | 4201 | 06 | 4.4 | 20 | SF | | 1 | V | 0921 | | D |
| | KHAR | 31 | 0920E | | 0923D | S10 | E52 | 4201 | 06 | 4.3 | 30 | SF | | | | | | |
| 0598 | | 31 | 1000 | 10022 | 1006 | S20 | W64 | 4187 | 05 | 26.5 | 6 | SN | | | | | 70 | HK |
| | KHAR | 31 | 0944E | 1004 | 1017D | S21 | W65 | 4187 | 05 | 26.4 | 33D | SN | | | P | 0947 | | K |
| | MONT | 31 | 1000 | 1002 | 1006 | S19 | W64 | 4187 | 05 | 26.5 | 6 | SN | | | C | 1002 | 70 | H |
| | | 31 | 1121 | | 1128 | No Flare Patrol | | | | | | | | | | | | |
| 0599 | RAMY | 31 | 1141 | 1141 | 1148 | S11 | E16 | 4196 | 06 | 1.7 | 7 | SF | | | 3 | C | | 21 |
| 0600 | RAMY | 31 | 1155 | 1201 | 1210 | S09 | E62 | 4201 | 06 | 5.1 | 15 | SF | | | 3 | C | | 20 |
| 0601 | RAMY | 31 | 1255 | 1302 | 1307 | S12 | E64 | 4201 | 06 | 5.3 | 12 | SN | C | 3.0 | 3 | C | | 21 |
| 0602 | | 31 | 1336* | 1350 | 1416 | S10 | E64 | 4201 | 06 | 5.4 | 40 | SB | C | 7.9 | | | 158 | E |
| | HOLL | 31 | 1336 | 1350U | 1356D | S11 | E63 | 4201 | 06 | 5.3 | 20D | SB | C | 7.9 | 1 | C | 125 | E |
| | RAMY | 31 | 1348 | 1350 | 1416 | S10 | E65 | 4201 | 06 | 5.4 | 28 | 1B | C | 7.9 | 3 | C | 192 | |
| | KANZ | 31 | 1350 | 1350 | 1405D | S10 | E64 | 4201 | 06 | 5.4 | 15D | SB | | | 1 | | | |
| 0603 | RAMY | 31 | 1459 | 1505 | 1521 | S12 | E65 | 4201 | 06 | 5.5 | 22 | SN | M | 1.2 | 3 | C | | 48 |
| 0604 | HOLL | 31 | 1656 | 1656 | 1706 | S10 | E50 | 4201 | 06 | 4.5 | 10 | SN | | | 3 | C | | 77 |
| 0605 | HOLL | 31 | 1711 | 1730 | 1741 | S11 | E61 | 4201 | 06 | 5.3 | 30 | SF | | | 3 | C | | 38 |
| 0606 | | 31 | 1758* | 1805* | 1959 | S11 | E62 | 4201 | 06 | 5.4 | 121 | SB | C | 9.0 | | | 128 | FKU |
| | HOLL | 31 | 1758 | 1805 | 1959 | S11 | E62 | 4201 | 06 | 5.4 | 121 | SN | | | 2 | C | 48 | K |
| | HOLL | 31 | 1758 | 1826 | 1959 | S11 | E62 | 4201 | 06 | 5.4 | 121 | 1B | C | 9.0 | 2 | C | 195 | UFK |
| | RAMY | 31 | 1810 | 1815 | 1954D | S11 | E62 | 4201 | 06 | 5.4 | 104D | SB | | | 3 | C | 144 | K |
| | RAMY | 31 | 1810 | 1826 | 1954D | S11 | E62 | 4201 | 06 | 5.4 | 104D | SB | C | 9.0 | 3 | C | 126 | K |

86
May 83

H - ALPHA SOLAR FLARE

MAY 1983

| Grp # | Start Sta Day | Max (UT) | End (UT) | NOAA/ WMO | | | | Dur (Min) | Imp | Obs | Time (UT) | Apparent (10^-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks | | |
|----------|------------------|-------------|-------------|--------------|-----|--------|--------|--------------|-----|-----|--------------|--------------------------|--------------------------------------|---------|----|---|
| | | | | Lat | CMD | Region | Mo Day | | | | | | | | | |
| 0607 | HOLL 31 | 2017 | 2018 | 2052 | S11 | E71 | 4201 | 06 | 6.2 | 22 | SN C | 2.9 | 2 | C | 63 | F |
| 0608 | HOLL 31 | 2045 | 2046 | 2050 | S12 | E60 | 4201 | 06 | 5.4 | 5 | SN | | 3 | C | 30 | |
| 0609 | HOLL 31 | 2100 | 2102 | 2108 | S11 | E60 | 4201 | 06 | 5.4 | 8 | SF C | 2.1 | 2 | C | 26 | |

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
P = Flare shows helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

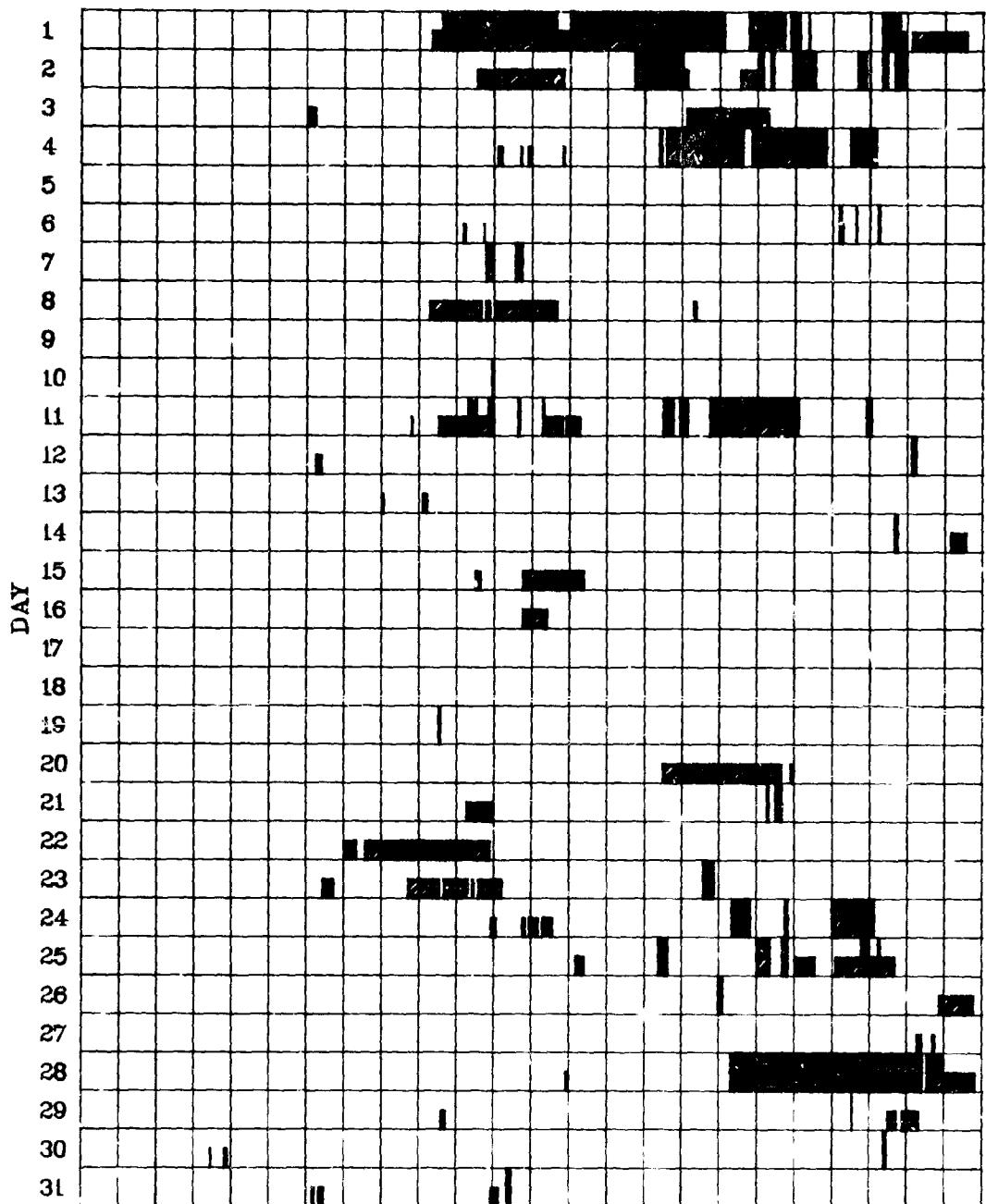
INTERVALS OF NO FLARE PATROL OBSERVATION 87
May 83

FOR PRECEDING SOLAR FLARE TABLE

MAY 1983

HOUk-UT

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

| | | | | |
|------------|----------------|-------------|-------------|-------------|
| Abastumani | Georgiana | Kanzelhoehe | Manila | Purple Mt. |
| Athens | Haute Provence | Kharkov | Mitaka | Ramey |
| Bucharest | Holloman | Kodaikanal | Monte Mario | Tashkent |
| Catania | Istanbul | Learmonth | Palenua | Voroshilov |
| Culgoora | Kandilli | Lvov | Peking | Wendelstein |
| | | | | Yunnan |

88
May 83

NUMBER OF SOLAR FLARES
(From the Grouped Flare Listings)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1966 | | | | | | | | 391 | 558 | 432 | 417 | 543 |
| 1967 | 796 | 589 | 1009 | 694 | 771 | 629 | 907 | 911 | 573 | 946 | 775 | 1109 |
| 1968 | 1037 | 773 | 519 | 460 | 768 | 697 | 573 | 611 | 616 | 772 | 556 | 640 |
| 1969 | 581 | 504 | 669 | 655 | 839 | 694 | 489 | 551 | 540 | 643 | 566 | 422 |
| 1970 | 466 | 646 | 578 | 688 | 722 | 836 | 954 | 780 | 811 | 797 | 687 | 667 |
| 1971 | 598 | 505 | 387 | 546 | 461 | 430 | 713 | 673 | 518 | 375 | 431 | 394 |
| 1972 | 384 | 599 | 621 | 361 | 614 | 541 | 404 | 515 | 371 | 408 | 175 | 210 |
| 1973 | 221 | 171 | 410 | 453 | 388 | 270 | 232 | 182 | 353 | 201 | 136 | 163 |
| 1974 | 127 | 148 | 79 | 364 | 255 | 204 | 360 | 187 | 270 | 366 | 153 | 81 |
| 1975 | 68 | 82 | 69 | 19 | 42 | 85 | 196 | 346 | 68 | 38 | 127 | 25 |
| 1976 | 69 | 18 | 180 | 60 | 38 | 48 | 6 | 47 | 57 | 23 | 13 | 55 |
| 1977 | 54 | 77 | 18 | 76 | 64 | 210 | 140 | 140 | 250 | 252 | 107 | 336 |
| 1978 | 274 | 588 | 338 | 526 | 330 | 460 | 533 | 346 | 554 | 499 | 418 | 648 |
| 1979 | 926 | 781 | 731 | 731 | 907 | 772 | 750 | 821 | 901 | 1018 | 888 | 786 |
| 1980 | 703 | 689 | 621 | 1092 | 811 | 956 | 763 | 720 | 924 | 988 | 1027 | 838 |
| 1981 | 578 | 782 | 914 | 915 | 658 | 592 | 893 | 982 | 680 | 836 | 773 | 615 |
| 1982 | 631 | 763 | 803* | 490* | 553* | 769* | 696* | 753* | 616* | 545* | 565* | 749* |
| 1983 | 332* | 220* | 337* | 346* | 609* | | | | | | | |

* Preliminary